


THE NEWSLETTER FOR  COMPUTER USERS

MARCH 1986
VOL 2 NO 2

OUR ROOTS

Microware could have hired Brian Capouch as an OS-9 missionary, but they didn't. He took the job on his own and became the first President of the OS-9 Users Group. We interviewed Brian recently to give you a glimpse at the history of your group.

Capouch is the head of the computer science department, an instructor and the junior varsity basketball coach at St. Joseph's College, a small Catholic college in Monon, Indiana. And if you couldn't guess it from his job description, he is also full of energy. He got into OS-9 through pure luck.

"Ken Kaplan had sent some materials to a Smoke Signal dealer about 50 miles from me back during the RT-68 days," Capouch said. "I was hooked right away and started calling Microware every three days," Capouch continued. "Kenny, Larry Crane, Bob Doggett, Doug Nicholsen, Bill Phelps and Bob Sorensen — the first programmers at Microware — all answered the phone back then.

"I finally got ahold of my first copy of OS-9 in January of 1981," Brian said. "I know it was an early copy because many of the things in that first manual never made it to the final product. It was fascinating to watch OS-9 evolve."

Capouch even delayed a well earned vacation to Mexico for a day so he could drive to his dealer and pick up that first copy of OS-9. As it turned out, the disk was in the wrong format and he had to send it back. When he returned from vacation the right disk was at the post office and he went to work. In fact, he still has the first disks he formatted with OS-9.

"We had the first running version of Level I OS-9 by April of that year," Capouch said. "It was as solid as a rock!"

Brian taught at West Central High School in Francisville, Indiana at the time. "The school board was very interested in the multi-user nature of OS-9 and they bought one of the first versions of OS-9 Level II," he said.

Unfortunately, the school's Smoke Signal System was stolen during the summer of 1981. But Capouch and company recovered, switching to a GIMIX system. In fact, they bought two — both running OS-9. The school learned that the GIMIX microcomputers were a very cost effective alternative to their IBM System 34. They had been used to paying \$80,000 per dozen users. They paid about \$16,500 for a GIMIX OS-9 Level II System and later did the beta testing for GIMIX Level III OS-9.

Capouch started sending code to Microware soon after he started using OS-9 at the school. The idea for the Users Group followed shortly thereafter. Jeanne Kaplan had joined the company and asked Brian if he would like to form an OS-9 Users Group started at Microware's first seminar in August 1982.

In Des Moines, Terry Ritter of Motorola gave a speech and Brian followed. Then, the pioneers in the Marriot hotel meeting room talked about what they wanted.

"Everyone had their own idea," Capouch said. "We were all pretty naive then. We even thought we could stay in touch by the mail."

Shel Epstein, who lived in a Chicago suburb, was VP; Terry Strachley, from the Los Angeles area was Treasurer and Harold Harkness of Dallas was the Secretary.

"We learned very quickly that geographic problems were going to be big problems," Capouch said. "We took donations — the only substantial one was from Frank Hogg — and it didn't take long to spend that on phone calls. People had trouble getting their checks to us. Additionally, we were all at a very busy point in our careers. In fact, I had just started my teaching career."

George Dorner was right there from the start also and he started a bulletin board using the Harper College system just two months after that first meeting.

"There were many, interesting and disturbing interchanges on that board," Brian said. "George had it all on disk and on paper. In fact, at the next meeting in 1983 we tried to pass it out and most of our members got a copy."

If we can get ahold of a copy we'll try to publish some of the really amusing messages in a future MOTD. There were many wish lists on that bulletin board and some of the technical ideas, like those from James Jones in Oklahoma City were fantastic. A few members even thought the group should charge \$500 in dues because they thought a \$50,000 capitalization was needed to run the group with commercial help. Capouch himself spent nearly \$500 during the first six months before the high cost forced him out of the forum. He lives in a "real communications dead spot" and it cost him thirty dollars an hour just to call CompuServe.

"George gave time and time and more time," Capouch said. "We absolutely wouldn't have gotten the OS-9 Users Group off the ground without him. CompuServe didn't come on line until the first or second quarter of 1982. Without George's board there would have been no way to communicate. And

to compound our problems, there was no OS-9 communications software available at the time."

As a result, communications became the first priority for the young group.

"I remember my first committee — an emergency communications committee," Capouch said. "We knew that if we didn't figure out a way to communicate with one another we were sunk. Things were real different in the industry then but our purpose was mainly to communicate with others and share software. We wanted to promote OS-9 and communicate its benefits to the outside world."

Brian Capouch thinks the progress the group has made since that hot summer night in 1982 is nothing short of phenomenal. He hopes to jump in and enjoy some of the new benefits as soon as the basketball season ends. If you see him on line say hello and thank you. Or just drop him a line and let him know you appreciate his efforts.

(Editor's Note: Check out the December 12, 1985 issue of Machine Design. An article on Page 78-80 titled System Software for Real Time Control features your favorite operating system. Thanks for the tip Brian!

Program of the Month

One of the nicest things about being in a Users Group is the availability of Public Domain software. There always seems to be someone developing something new that is free to members just for the asking. What's even nicer is that sometimes, you don't even have to ask!!!

In this vein, the MOTD will start offering a new column of the program of the month. It will be a short program with some practical application. The only rules are that it must work and it must be in the public domain. The exception is when a member sends in their own program for which they hold the copyright with a copyright release.

Here's the first program of the month. It's a short Basic09 listing from Dennis Derringer, president of Derringer Software, Inc. It's used to provide you with paginated listings of your Basic09 programs. It's free to all for non-commercial purposes.

PROCEDURE pager

(* *****

(* BASIC09 Listing Utility 1.0

(* Written by: Dennis Derringer

(* September 15, 1985

(* *****

DIM filename:STRING[20]; line:STRING[200]

```
DIM temp:STRING[200]
DIM xline:STRING[60]
DIM path,printer:BYTE; page:BYTE;
linecount:BYTE; tabset:BYTE
DIM proc:STRING[50]
DIM output:STRING[2]
DIM a,start,endpos:INTEGER
output:="/p"
10 (* main loop
PRINT CHR$(12) PRINT "Basic09
Listing Pager"
PRINT "Type 'end' or press [ENTER] to
exit"
PRINT INPUT "File to list: ".filename
IF filename="end" OR filename="END"
OR filename="" THEN
END
ENDIF
page:=1
linecount:=1
tabset=10
OPEN #path,filename:READ
READ #path,line
proc:=line
OPEN #printer,output:WRITE
GOSUB 100
WHILE NOT(EOF(#path)) DO
READ #path,line
REPEAT
start:=SUBSTR(CHR$(10),line)
IF start <> 0 THEN
line:=LEFT$(line,start-1)+"MIDS(li-
```

BULK RATE
U.S. POSTAGE
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PERMIT NO. 18
PROSPECT, KY

86103/13

GETTING IT TOGETHER!!!

The development of this issue. . .

by Bruce N. Warner, Editor

This issue of the MOTD has been a bit unique. It has brought us to realize that there will have to be a lot of work done on our part if we're going to get the newsletter out without the help of everyone in the Users Group.

We'll start with realizing that the MOTD is your publication. I'm just the guy that checks out the spelling errors and the like. You are the people that have to write it. All the Dale L. Pucketts and Brian A. Lantz's will never get the MOTD responsive to your needs if you don't contribute something.

New names in out midst

You'll probably notice some new names in this issue. There are reviews by Marc Johnson and Fred Scoville. These are two of the newest members of the Users Group. They joined the group to offer something. We can all do the same thing. All we have to do is start.

We'll run almost anything. All we want is an assurance that your offering is not protected by copyright and that it be supplied on diskette. I can read either RS OS-9 or Standard OS-9 format (thanks to D.P. Johnson's SDisk utility). Please identify which format on the label.

Words to grow by

Many of you have given us kind words of encouragement about the new MOTD. We're glad to find that it fills your needs as it is intended. The overwhelming number of readers have told us that they love the new format and the contents. This issue is a little different because of the inclusion of the by-laws and constitution.

With the completion of the constitution and by-laws, we are publishing them in the MOTD so that every member will have a copy. Please read them so you know what the officers of the club are doing and what each officers responsibility is.

Stirring up the pot

I've heard some grumbling in the last couple of months about people feeling we haven't done all we could to help everyone. I've even heard some people say we've given preferential treatment to others.

I can't speak for everyone, only about my own experiences. I'll start with my gut reaction . . . NO WAY!!! Then I have to think back a little and correct that. Yes we have. We've gone out of our way to give preferential treatment to the people who have complained the loudest, in spite of the fact that we can't find any grounds to their complaints. We've spent countless time and a lot of money just responding to the cries and atti-

tudes of some members. Time and money that could have been better spent.

In short, I've put more time in the last month trying to fix unfounded complaints about the dealings of the Users Group than I have on getting the issue to press. I won't in the future. I'm not perfect, and when I make mistakes I try to fix them to the best interest of all concerned. Just like most of you, I hate wasting time and at least one member of the UG has done a great job at stirring up the pot to make things difficult.

As a new member to the so called "inner circle" (it only exists in some peoples minds), the policy of the UG leadership is that we have to do our best to make EVERYONE happy. The people we like and the people we like less. There is no room in the leadership for people that play favorites, and I've resolved that is a good policy.

The so called "inner circle"

About that "inner circle." I'm sure some people think there is a closed group somewhere that keeps the peons out. I'll tell you how I got involved.

About two years ago I was reading an article by Dale L. Puckett on the merits of DynaStar. Something in the article told me that he lived about a mile away from my home in Dale City, Virginia. Scared that I'd run into the inner circle barrier, I still picked up the receiver and called. Much to my surprise, Dale answered the phone and was warm and friendly. We later got together and discussed how OS-9 works and what makes it such a powerful operating system. Today we are close friends with a lot in common.

Brian A. Lantz is another story. He and I met in Princeton, New Jersey at the 1984 RAINBOWfest. Believe it or not I met him again at the 1985 RAINBOWfest and was totally embarrassed when I realized that he remembered little old me and I forgot our brief meeting of the year before.

If that's what you call a closed "inner circle," I'm proud to be a part of it.

Beating a dead horse

Every time you hear from me you'll hear the same old words, "How about writing something for the MOTD?" It's because we need your help to keep the MOTD informative and full. The more we receive, the more we have to select from. If we start to receive enough, we'll ever start expanding the number of pages in the MOTD.

That's it for this month. I'm already at work on the next issue of the MOTD. I sure hope you enjoy it and that it's something you look forward to every month.

MOTD
MESSAGE OF THE DAY

March, 1986

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MOTD is published monthly as the official newsletter of the National OS-9 Users Group, 410 Hubbell Building, Des Moines, IA 50309

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Chicago OS-9ers Active

Chicago area OS-9 Users Group members meet each month in Wood Dale, a northwest suburb, on the fourth Thursday at 7:00 p.m.

All are welcome to join the OS-9ers at the Wood Dale Library on March 27. The program usually consists of a programing demonstration and a product review. A number of original projects have also been demonstrated at the meeting including ramdisk projects, a 256 channel data analyzer made from a COCO, and hard disk interfaces. At the January meeting, a Forth-like language was demonstrated on the COCO and the Sculptor data-base program was demonstrated on an Electra OSK machine.

Beginning on April 24 the group will meet at the Wood Dale Park District building which is across the street from

the Wood Dale Library where meetings have been held for the last year. This will allow the meeting to extend until 10:00 p.m. before the regular adjournment to the nearby restaurant for coffee, pie, and conversation into the night.

A variety of OS-9 machines is represented by those attending, with the majority being COCOs. Many are familiar with OS-9 on several machines, however. A number are also UNIX users professionally, and there are members from AT&T, Bell Labs, Motorola, and several local universities. On occasion there have been attendees from Indiana and Wisconsin.

The Chicago OS-9 group has been held together by John Chasteen. To get on the phone tree or for other information, call John at 312-860-2580 or call George Dorner at 312-358-7622.

OS-9 ON A DRAGON???

There has been a lot of concern about using OS-9 on the Dragon. Some of you have even tried going it alone. Now there's hope for you all!

The Users Group is getting together a special group to address the problems of OS-9 on the Dragon. They plan to share information and to overcome the problems that have come up. You can be a part of the Dragon Solution by writing with your questions and fixes to the Users Group at the following address:

OS-9 Users Group
ATTN: MISC
9743 University Ave., suite 330
Des Moines, IA 50322

MOTD is produced and distributed by Falsoft, Inc., publishers of THE RAINBOW, the official magazine of the National OS-9 Users Group.

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More Incredible!

Now there are **THREE!**



TERMINAL NOT INCLUDED

The QT

The **QT** family of multi-user, multi-tasking computers supports from 4 to 20 users. Currently 9 models are available, ranging in price from \$ 1,595 to \$ 8,795. Models are available with the Motorola 68008, 68000 or the new 32 bit 68020 CPU. CPU speeds range from 8 Mhz to 16.67 Mhz; RAM size from 128K to 2048K and ROM from 2K to 256K. All the **QT**'s have a built in SASI interface and will support any hard drive. All **QT**'s include OS9/68K, the multi-user operating system with Basic, utilities, word processing and spreadsheet programs. The **QT**'s take up less than one cubic foot of space.

The QT series:

The basic **QT** has 128K RAM, 68008 CPU, 8 Mhz and will support 4 users and 2 printer ports. The single floppy version is priced at \$ 1,595 (Retail \$ 2,095) and is field upgradeable to 512K RAM and 20 Meg hard drive. This system sells for \$ 2,995 (Retail \$ 3,595).

The QT Plus series:

This **QT** has 512K RAM, 68000 CPU, 10 Mhz and supports 4 users and 2 printer ports. The single floppy version is priced at \$ 2,095 (Retail \$ 2,695) and is field upgradeable to 1024K, 8 serial ports and hard disk. The **QT Plus** 4 user system with 512K RAM and 20 Meg hard drive is priced at \$ 3,495 (Retail \$ 3,995). The 512K upgrade costs \$ 395 (Retail \$ 495).

OS9 is a trademark of Microware Inc.

QT 20 68020
QT Plus 68000
QT 68008



The QT 20 series:

This **QT** has 2048K RAM, 68020 CPU, 12.5 Mhz and supports 4 users and 1 printer port. This system can be expanded to 20 users with 16.67 Mhz. The **QT 20** with a 20 Meg hard drive sells for \$ 7,495 (Retail \$ 8,795).

QT Price List 1986

CONFIG.	DIRECT	RETAIL
QT 1 Drive	\$1,595	\$2,095
QT 2 Drives	\$1,750	\$2,295
QT 20 Meg HD	\$2,995	\$3,595
QT+ 1 Drive	\$2,095	\$2,695
QT+ 2 Drives	\$2,250	\$2,895
QT+ 20 Meg HD	\$3,495	\$3,995
QT 20 20 Meg HD	\$7,495	\$8,795

OS9/68000 SOFTWARE

Available Now

Sculptor	\$995 (\$695 for QT owners)
Microware C	\$400
Microware Pascal	\$400 Add 3.50 Shipping

1976 **FHI** FRANK HOGG LABORATORY 1986

770 James St., Syracuse, NY 13203 Telex 646740

315/474-7856


```

ne,start+1,200)
ENDIF
UNTIL start=0
IF LEFT$(line,4)="ELSE" THEN
PRINT #printer,TAB(tabset-2); line
linecount:=linecount+1
ELSE
IF LEFT$(line,7)="ENDEXIT" OR
LEFT$(line,5)="ENDIF" OR LEFT$(li-
ne,7)="ENDLOOP" O
R LEFT$(line,8)="ENDWHILE" OR
LEFT$(line,5)="UNTIL"OR LEF-
T$(line,4)="NEXT" THEN
tabset:=tabset-2
ENDIF
IF LEN(line)>>60 THEN
temp:=line
xline:=LEFT$(line,60)
start:=1
endpos:=61
REPEAT
IF start=1 THEN
a:=tabset
ELSE
a:=tabset+2
ENDIF
REPEAT
endpos:=endpos-1
UNTIL MID$(xline,endpos,1)=" " OR
endpos>LEN(line) OR endpos=0
IF endpos=0 THEN
endpos:=60
ENDIF
xline:=LEFT$(xline,endpos)
line:=MID$(line,endpos+1,200)
PRINT #printer,TAB(a); xline
linecount:=linecount+1
start:=endpos+1
endpos:=61
xline:=LEFT$(line,60)

```

```

UNTIL line=""
line:=temp
ELSE
IF ASC(line)<58 THEN
tabset:=10
PRINT #printer,TAB(tabset-5); line
linecount:=linecount+1
ELSE
PRINT #printer,TAB(tabset); line
linecount:=linecount+1
ENDIF
ENDIF
IF LEFT$(line,2)="IF" OR LEFT$(li-
ne,6)="EXITIF" OR LEFT$(line-
,4)="LOOP" OR LEFT$
(line,5)="WHILE" OR LEFT$(li-
ne,6)="REPEAT" OR LEFT$(line-
,3)="FOR" THEN
tabset:=tabset+2
ENDIF
ENDIF
IF linecount>60 THEN
FOR a=1 TO 66-linecount
PRINT #printer,CHR$(13);
NEXT a
GOSUB 100
ENDIF
ENDWHILE
PRINT #path,CHR$(12)
CLOSE #path
CLOSE #printer
GOTO 10
100 (* Subroutine to print page heading
PRINT #printer,"
PRINT #printer USING
"110,s32,t65,"Page: 'i3",proc,page
PRINT #printer,TAB(10); "Date / Time:
"; DATES
PRINT #printer,"
page:=page+1
linecount:=3
RETURN

```

WHAT EVER HAPPENED TO NOVEMBER???

In case you hadn't noticed, a lot of people are complaining about not receiving their November issue of the MOTD. There is a logical reason for this. There wasn't one.

At that time, Tim and Lori Grovac were moving to their new home in Great Falls, Virginia and there just wasn't an editor for the MOTD. It wasn't until late December that everything was ironed out and I was named as the new editor of the MOTD. Then came the January issue, and I hope you have all seen that by now.

That's the bad news. Now for a little good news. With this issue of MOTD we plan to go monthly. That will require a lot of work on my part, and a lot of help on yours. We plan to make the MOTD a newsletter that everyone can enjoy and a method of sharing information. You can help with anything and everything you might want to write about. It doesn't matter how large or how small a piece it is. Just send us your information, article or program and we'll be glad to pass it on.

TEN MOST-ASKED QUESTIONS about **DYNACALC** THE ELECTRONIC SPREAD-SHEET FOR OS-9 SYSTEMS

1. What is an electronic spread-sheet, anyway?

Business people use spread sheets to organize columns and rows of figures. DYNACALC simulates the operation of a spread-sheet without the mess of paper and pencil. Of course, corrections and changes are a snap. Changing any entered value causes the whole spread-sheet to be re-calculated based on the new constants. This means that you can play "WHAT IF?" to your heart's content.

2. Is DYNACALC just for accountants, then?

Not at all. DYNACALC can be used for just about any type of job. Not only numbers, but alphanumeric messages can be handled. Engineers and other technical users will love DYNACALC's fifteen-digit math and built-in scientific functions. With 6809 DYNACALC, you can build worksheets as large as 256 columns or 256 rows (18278 columns or 9999 rows in 68000 versions). There's even a built-in sort command, so you could use DYNACALC to manage small data bases - each row of the worksheet is one record.

3. What will DYNACALC do for ME?

That's a good question. Basically the answer is that DYNACALC will let your computer do just about anything you can imagine. Ask your friends who have Lotus 1-2-3, VisiCalc, or similar programs, just how useful an electronic spread-sheet program can be for all types of household, business, engineering, and scientific applications.

4. Do I have to learn computer programming?

NO! DYNACALC is designed to be used by non-programmers, but even a Ph.D. in Computer Science can understand it. Built-in HELP messages are provided for quick reference to operating instructions.

5. Do I have to modify my system to use DYNACALC?

Nope. DYNACALC uses any standard OS-9 configuration, so you don't have to spend money on another CPU board or waste time learning another operating system.

6. Will DYNACALC read my existing data files?

You bet! DYNACALC has a beautifully simple method of reading and writing data files, so you can communicate both ways with other programs on your system, such as the Stylo-Graph word processor, Sort/Merge, data base systems, or other programs written in Basic09, C, PASCAL, FORTRAN, and so on.

7. How fast is DYNACALC?

Very. DYNACALC is memory-resident, so there is no disk IO to slow things down. The whole data array (worksheet) is in memory, so access to any point is instantaneous. DYNACALC is 100% machine code for blistering speed.

8. Is there a version of DYNACALC for MY system?

There's a version of DYNACALC for EVERY OS-9 system. Unless you have a CoCo, you need a CRT terminal with at least 80 characters per line, and direct cursor addressing. You can mix different brands of terminal on the the same system. The CoCo OS-9 version is compatible with 80-column hardware cards, or will work with the standard 52x16 screen.

9. How much does DYNACALC cost?

Radio Shack sells the CoCo OS-9 version for \$99.95. The general 6809 OS-9 version is priced at \$250, \$595 for the OS-9/68k version. Foreign orders add \$10 per copy for postage. We encourage dealers to handle DYNACALC since it's a product that sells instantly upon demonstration. Call or write on your company letterhead for more information.

10. Where do I order DYNACALC?

If you have a CoCo, order #26-3275 at your local Radio Shack store. Otherwise, see your local DYNACALC dealer, or order directly from CSC at the address below. We accept telephone orders from 10 am to 6 pm, Monday through Friday. Call us at 514-576-5020. Your VISA or MasterCard is welcome. All orders are shipped on 5" diskette unless you specify otherwise. Please tell us if you need Microware standard or Mizar format.

Computer Systems Center
42 Four Seasons Center #122
Chesterfield, MO 63017 USA
(314) 576-5020



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OS-9 and Basic09 are trademarks of Microware & Motorola.
1-2-3 is a trademark of Lotus Development Corp.
VisiCalc is a trademark of VisiCorp.
Stylo-Graph is a trademark of Stylo Software, Inc.
Radio Shack is a trademark of Tandy Corp.

DYNACALC  **OS-9**

OS-9 Users Group Software Library Volumes — 01/29/86

No.	Done?	Title	Format	Who?
0.05	Y	New Member Intro	+++ (40 track, ss)	DK
1.00	Y	Spelling Checker	(35 track, ss)	DK
2.00	Y	Spelling Dictionary	(40 track, ds)	DK
3.01	Y	Word Processing Utils	+++ (35 track, ss)	DK
4.01	Y	Programming Utilities	+++ (35 track, ss)	DK
5.00	Y	File Processing Utils	+++ (35 track, ss)	DK
6.02	Y	Adventure Game (source)	(40 track, ds)	CK
7.02	Y	Adventure Game (object)	(40 track, ss)	CK
8.00	Y	General Interest (demo, games, finance)	(35 track, ss)	CK
9.00	Y	C Programmer's Tool Kit	(35 track, ss)	CK
10.00	Y	Math & Electronics I	(35 track, ss)	GD
11.00	Y	Word Processing Utils (disk #2)	(35 track, ss)	CK
12.00	Y	Programming Utilities (disk #2)	(35 track, ss)	CK
13.00	Y	File Processing Utils (disk #2)	(35 track, ss)	CK
14.02	Y	File Maintenance	(35 track, ss)	CK
15.01	Y	Communication	(35 track, ss)	CK
16.00	Y	Hardware Customizations	(35 track, ss)	CK
17.00	Y	Basic09 Programmer's Tool Kit	(35 track, ss)	CK
18.00	Y	System Utilities	(35 track, ss)	CK
19.01	Y	Languages I: XLisp (source)	(40 track, ds)	CK
20.00	Y	XLisp (object)	(35 track, ss)	DK
21.00	Y	File maintenance (disk #2)	+++ (35 track, ss)	CK
22.00	Y	Programming Utilities (disk #3)	(35 track, ss)	CK
23.00	Y	File Processing Utils (disk #3)	(35 track, ss)	CK
24.00	Y	General Interest (disk #2)	(35 track, ss)	CK
25.00	Y	Word Processing Utils (disk #3)	(35 track, ss)	CK
26.00	Y	C Language Math Library	(35 track, ss)	CK
29.00	Y	File Maintenance (disk #3)	(35 track, ss)	CK
30.00	Y	File Processing Utils (disk #4)	(35 track, ss)	CK
31.00	Y	Hardware Customizations (disk #2)	(35 track, ss)	CK
32.00	Y	Hardware Customizations (disk #3)	(35 track, ss)	CK
33.00	Y	System Utilities (disk #2)	(35 track, ss)	CK
34.00	Y	Hardware Customizations (disk #4)	(35 track, ss)	CK
35.00	Y	System Utilities (disk #3)	(35 track, ss)	CK
36.00	Y	General Interest (disk #3)	(35 track, ss)	CK
37.00	Y	Communication (disk #2)	(40 track, ds)	CK
38.00	Y	Programming Utilities (disk #4)	(35 track, ss)	CK
39.00	Y	Communication (Morse) (disk #3)	(40 track, ds)	CK
40.00	Y	System Utilities (disk #4)	(35 track, ss)	CK
42.00	Y	Coco Graphics	(35 track, ss)	CK

NOTES: 1) Above formats describe STANDARD (non-CoCo) versions and are single-density.

2) All of the completed volumes are available in TRS-80 Color Computer format (dd, 18 sectors/track, etc.)

+++ For these volumes to fit in the specified format, the disk is created with a default sector allocation of 1 sector per directory (made by doctoring the "segment allocation size" byte (offset \$20) in the device descriptor of the drive on which the master disk is made).

Orders can be made by mail or through the online services of DELPHI and CompuServe. Payment is required in advance by check, money order, VISA or Master Card.



AND IT KEEPS GETTING BETTER!!

by Brian A. Lantz

So many of you have been so positive about the recent changes to the MOTD, that it makes me happy to announce this other BIG change. Starting with this issue, the MOTD will go from bi-monthly to monthly!! So, in 1986, you will receive 11 issues of MOTD, instead of the 6 issues of last year!

Your support of the vendors that advertise in the MOTD has been appreciated much! The best way that we can get these vendors to support the MOTD is by their feeling that it has "paid off." When you order from an MOTD advertiser, tell them that you saw their ad here.

The RAINBOWfest in Palo Alto was a success in any way that you can consider a show a success! There were several new members that joined our ranks there. Welcome to those who joined the OS-9 UG in Palo Alto. There were three OS-9 seminars, which were all attended highly. OS-9 is growing rapidly in the CoCo marketplace.

The first OS-9 Buffet Breakfast in Palo Alto was a great time for all. Paul Searby, our keynote speaker, was the highlight of the breakfast. The time of sharing and information exchange was beneficial to all, and the food wasn't bad, either! We look forward to the time when we have even larger crowds for these breakfasts.

As we have been doing in the past few months, the OS-9 Users Group will be sponsoring an on-line conference on Delphi on March 11, at 10:00 p.m. EST on Uninet. Our guest conference will be Dave Kaleita, Software Librarian of the OS-9 Users Group. Dave is the man responsible for the upkeep of our extensive library of public domain software. The library has over 40 disks at the present time. Many of you have asked questions about the library and what it contains, and Dave should be able to answer your questions. Join us on Tuesday evening the 11th, and bring along your questions for Dave Kaleita.

For the most of the rest of this column, let me try to explain some of the other information that you will find in this issue of the MOTD. In 1984, at the Microware OS-9 Seminar, the UG directed the previous officers to proceed with the incorporation of the UG, and to take whatever steps it took to do so, including the adoption of a Constitution and a set of By-laws. As one of the their acts (and one of the current officers' first acts), the UG was incorporated as a non-profit organization in the state of Iowa. With this action, a Constitution and set of By-laws were approved. They are re-produced in this issue, for your informational use.

The Constitution and By-laws are very wordy and complicated in places, so I will try to explain the highlights.

The powers of the Corporation exist in the elected officers of the OS-9 UG. These are the President, the Vice-President, the Secretary, and the Treasurer. In addition to the elected officers, there are, at the present, two appointed officers. These are the Editor of the MOTD, and the Software Librarian.

The business decisions of the UG are under the supervision of the Board of

Directors. The Board consists of the elected officers, the appointed officers, and at least one Director-at-Large. The size of the Board is to be at all times an odd number, so that the President, who serves as the Chairman of the Board, only needs to vote in the case of a tie.

The Board decides which items of business need to be brought to the membership for decisions, and which items to decide on behalf of the total membership. Let me say something at this point; The Board is going to make some decisions that YOU will probably disagree with. With over 1100 members, it will be impossible to satisfy EVERYONE, EVERYTIME! I hope that you realize this, as I do. Since we know this to be true, you must understand that the Board will be working in the best interest, trying to satisfy the majority of the membership and meet the objectives of the UG. (If you want this job, let me know! We will be having elections, soon!)

Standing committees (or committees that are needed on a permanent basis) have been set-up for regulation of several key areas. These committees have been established to help research problems, suggest solutions, and to help carry the burden of running an international organization with the many programs and interests that exist. In addition, when a committee is needed for a temporary basis, a select committee shall be formed. Select committees only differ from standing committees in that they are not needed permanently.

You will find a listing of the committees, and their members, elsewhere in this issue. These are only the members required. These committees can have more members. If you are interested in serving on one of these committees, contact me! We will be glad to have you serve with us as we try to lead the OS-9 UG in the best manner possible.

You will also find a copy of the 1986 Budget in this issue of the MOTD. I will not attempt to describe everything that this budget will allow us to do, but I will give some general comments.

There were two mandates that I have undertook as President. The first is that all regular programs of the UG will become self-sustaining. These programs currently include the Software Library, and the MOTD. These programs are the most visual and important services that we provide the membership, but they SHOULD NOT use up the membership dues that we receive from the membership. We should have those dues available to increase the services that we can make available. These programs in the past have cost us over \$11,000 annually. Since we have appointed officers to oversee these programs, this is simply a matter of developing policies and procedures that will make these programs self-sustaining.

The second mandate that I have taken is to establish business procedures that we make the UG run more efficiently. Much of the problems that were incurred in previous years can be traced back to a lack of established policies. This is NOT TO IN ANY WAY belittle the tremendous effort that has been

made by the previous officers to bring us to the place where we are now! But, now that we are at this place, we need to improve our policies, and procedures, and start running like an efficient business.

One of the things necessary to succeed in this mandate is the use of a budget, such as this one. A budget is not a magical document; it is simply a plan. We may not do all that we plan to do, but it is a cinch that we will not do it effectively if we do not PLAN it. In the past, we have not used a budget, so we have nothing to compare this with. We must simply make our best attempt at this budget, and be open to changes if our guesses weren't good enough in certain areas.

Also necessary for this mandate is to prepare properly for shows and conventions, such as RAINBOWfests and the Microware Convention. In the past, we have been at the mercy of the other exhibitors when we attend a show. We have had a computer when we could borrow one. We have not made it possible for the officers to attend EXCEPT at their own expense! This is unacceptable! This is the reason for section 3 of the budget, as well as lines 400 and 401.

One other example of a necessity of this mandate is writing for MOTD. In the past, someone writing for the MOTD did so at his own expense. He either uploaded to Compuserve (or Delphi) at the cost of connect time, or he sent a disk in the mail (or UPS). In addition to the actual cost of writing, the writer had spent the time to develop the article. This time was not reimbursed, either.

I am quite aware that this budget will not do all that we WISH to do in 1986. There will be things that come up during the year that we will start new programs for. It will be up to the Finance committee and the Board of Directors to keep on top of our needs, and to amend this budget as needed.

Our projected revenue for the year is \$65,000. While this sounds like a lot, it only requires 500 new members in 1986. During the last 5 months of 1985, the UG grew at a rate of greater than 125 new members per month. This increased membership is a conservative one.

The honorariums line of the budget (in section II) covers token payments to writers to encourage members to participate in the production of MOTD.

A note: Last year, during the time that Tim Grovac was Editor, the UG started a policy of compensating the Editor for the time put into producing the newsletter. At the time that Bruce Warner accepted the office of Editor, the current financial arrangement was explained to him. He agreed to the same arrangement. Budget line 202 also includes this amount for the 11 issues to be produced.

The budget line 203 is to cover a special issue of MOTD to be bound in the Rainbow, one month during 1986.

The Travel & Conventions section of the budget will allow the officers to attend all RAINBOWfests as well as the

Des Moines meeting. This will allow you to get to know them, and permit them to assist you in your area of the country.

One of the major expenditures that the UG has never made is for equipment. Because of this, to correctly position us as an effect business in this industry, we will need this year to expend a greater deal of money in this area. This will be a non-recurring expense that will allow us to attempt to "catch-up."

The Equipment & Supplies section of the budget has permitted us to purchase a computer, two terminals, two printers, as well as some assorted supplies & postage.

The Publicity & Printing section of the budget is one of the areas where, admittedly, the budget is slim. We could easily spend several times this amount in advertising and publicity. This should be the MINIMUM, though, that we consider in this area.

A WORD OF WELCOME:

Let me take this opportunity to be the first to welcome another one of our members, Bill Moore, to the staff of Microware. Last year, Microware was lucky enough to grab Tim Harris. Bill is another good catch for Microware! Bill will, aside from his other activities, be a point of contact between Microware and the UG officers.

AND CONGRATULATIONS:

Lest I make this one-sided, congratulations to Microware! As they continue to grow in the market place, they continue to reach out and grow in size. About a year ago, they built an impressive building to house their operations. Now, in just a few short months, they are having to expand again, and are building another structure on their property. Ken, Jeanne & Company, keep it up! You have our continuing support, and our unending gratitude for developing the best software environment there is!

RAINBOWfest CHICAGO

For those of you who are not aware of it, Rainbow magazine sponsors three regional computer shows, dedicated to the Tandy Color Computer. The next RAINBOWfest is in Chicago and the dates are May 23-25.

The OS-9 Users Group takes a big part during RAINBOWfests. Aside from being available to assist the members and answer questions, two of our Board members (President Brian A. Lantz, and Director Dale Puckett) have given OS-9 informational seminars in previous RAINBOWfests.

A tradition started at the last RAINBOWfest was the first OS-9 Buffet Breakfast. This tradition will continue to be a part of RAINBOWfests. For the Chicago OS-9 Buffet Breakfast, the UG is extremely proud to announce that our keynote speaker will be Ken Kaplan, President of Microware. This will be an event that you will not want to miss!!

A coupon will be included in the next issue of MOTD for ordering your OS-9 Buffet Breakfast tickets.

WHO'S WHO IN THE USER'S GROUP

and how do I get in touch with them

Several of you have expressed a need for complete information about the officers and committees. Here is the information as of today. Some of the committees are not complete, at this time. These are in the process of being filled, and you will be informed of the additions, as they are made. The official address of the UG is:

This is a new address. It is directly to a mail forwarding firm in Des Moines and greatly reduces the slowness in responding to your letters.

The "ATTN:" line is not needed, but should be included where there is one already defined. This will allow faster processing of correspondence. The defined "ATTN:"s are listed here, also.

OS-9 Users Group
ATTN:
9743 University Ave. Suite #330
Des Moines, IA 50322

Application for membership in the OS-9 Users Group

Last: _____
First: _____
Middle: _____
Street: _____
City: _____
State: _____ ZIP: _____
Phone: (_____) _____
Delphi ID: _____
Computer Make and Model: _____
OS-9 Level: _____ (I) _____ (II) _____ (68K) _____ (CoCo)
Disk Size: _____ (5 1/4") _____ (8")
Disk Format: _____ (CoCo) _____ (Standard)
Single Sided: _____ Double Sided: _____
of tracks: _____ (35) _____ (40) _____ (80)
Other restrictions, formats, comments, etc: _____

Enclose \$25 to cover the first year's membership in the form of a personal check or money order. Please allow approximately 3-5 weeks for processing your membership. The Users Group has a small staff, and applications are averaging 30 to 50 a week.

Shortly after acceptance of your application for membership, you will receive the current Group newsletter ("MOTD"), and soon after, the "starter" diskette, UG Disk # 0, with software of the type useful in getting you started with both OS-9 and the Users group, including a modem program to assist you with CompuServe access while under OS-9. Additional diskettes may be purchased at a cost of \$5 each to cover the cost of media and postage.

Mail your application and other correspondence to:

The OS-9 User's Group
ATTN: (department)
9743 University Avenue
Suite 330
Des Moines, IA 50322

Where (department) is President, MOTD Editor, Librarian, Membership, etc.

Membership dues can be charged to your VISA or MasterCard. Simply enter your card information below and sign this form.

Card type: VISA _____ MasterCard _____
Account #: _____
Expires: _____

OFFICERS

President:
Brian A. Lantz
DELPHI — OS9UGPRES COMPUSERVE — 70120,376
ATTN: President
ATTN: Misc
Vice President:
Bill Turner
DELPHI — OS9UGVP COMPUSERVE — none
ATTN: Vice President
Treasurer:
Steve Odneal
DELPHI — OS9UGTRES COMPUSERVE — not available
ATTN: Treasurer
ATTN: New Member
ATTN: Renewal
ATTN: Disk Order
Secretary:
Dave Gibson
DELPHI — OS9UGSEC COMPUSERVE — none
ATTN: Secretary
Director-at-Large:
Dale Puckett
DELPHI — OS9UGDIR COMPUSERVE — not available
Software Librarian:
Dave Kaleita
DELPHI — OS9UGLIB COMPUSERVE — not available
ATTN: Software Submission
Editor:
Bruce Warner
14503 Fullerton Road
Dale City, Virginia 22193
(703) 670-4962
DELPHI — OS9UGED COMPUSERVE — 70370,720
ATTN: Editor
ATTN: MOTD

COMMITTEES

Finance Committee:
George Dörner — Chairman
Marcus Johnson
(**plus two open spaces in the committee, at the present**)
Membership Committee:
Joe Dubuc — Chairman
DELPHI — OS9UGMEM COMPUSERVE — 70120,404
Robert Ringrose
James S. Petty
(**plus one open space in the committee, at the present**)
Public Relations Committee:
Bob Rosen — Chairman
Dale Puckett
(**plus two open spaces in the committee, at the present**)
Software Exchange Committee:
Carl Kreider — Chairman
Software Review Committee:
Marcus Johnson — Chairman
Bert Schneider

OS/9, MSDOS, FLEX SOFTWARE

5.25" DISKS EACH 10-PACK \$12/5-\$SDD/DSDD
American-made, guaranteed 100% quality, with Tyvek jackets, hub rings, and labels
CMODEM TELECOMMUNICATIONS PROGRAM \$100-FLEX, OS/9, MSDOS
OBJECT ONLY-versions: EACH \$50-FLEX, OS/9
menu-driven with terminal mode, file transfer, MODEM7, XON-XOFF, etc. for COCO and non-COCO; drives internal COCO modem port up to 2400 Baud
SUPER SLEUTH DISASSEMBLERS EACH \$95-FLEX \$101-OS/9
OBJECT-ONLY versions: EACH \$50-FLEX, OS/9, COCO
interactively generate source on disk with labels, include xref, binary editing
specify 6800, 1, 2, 3, 5, 8, 9/6502 version or Z80/8080,5 version
OS/9 version also processes FLEX format object file under OS/9
COCO DOS available in 6800, 1, 2, 3, 5, 8, 9/6502 version (not Z80/8080,5) only
CROSS-ASSEMBLERS 1/\$50-FLEX, OS/9, MSDOS 3/\$100 ALL \$200
specify for 180x, 6502, 6801, 6804, 6805, 6809, Z8, Z80, 8048, 8051, 8085, 68000 modular, free-standing cross-assemblers in c, with load/unload utilities and macros 8-bit (not 68000)
sources available for additional \$50 each, \$100 for 3, \$300 for all
DEBUGGING SIMULATORS EACH \$75-FLEX \$100-OS/9
OBJECT-ONLY versions: EAH \$50-COCO FLEX, COCO OS/9
specify for 6800/1, (14)6805, 6502, 6809 OS/9, Z80 FLEX
ASSEMBLER CODE TRANSLATORS FOR 6502, 6800/1, 6809
6502 to 6809 \$75-FLEX \$85-OS/9
6800/1 to 6809 and 6809 to position-independence \$50-FLEX \$75-OS/9
FULL-SCREEN FLEX TSC XBASIC PROGRAMS with cursor control \$50 w/source, \$25 without
DISPLAY GENERATOR/DOCUMENTOR \$100 w/source, \$50 without
MAILING LIST SYSTEM \$100 w/source, \$50 without
INVENTORY WITH MRP \$100 w/source, \$50 without
TABULA RASA SPREADSHEET
DISK AND XBASIC UTILITY PROGRAM LIBRARY \$50-FLEX
edit disk sectors, sort directory, maintain master catalog, do disk sorts, etc.

Computer Systems Consultants, Inc.
1454 Latta Lane, Conyers, GA 30207
Telephone 404-483-4570 or 1717

Most programs in source: give computer, OS, disk size.
Contact us for full catalog, dealer, and services info.
25% off multiple purchases of same program on one other.
VISA and MASTER CARD accepted; US funds only, please.
Add GA sales tax (if in GA) and 5% shipping.
FLEX Im Technical systems Consultants: OS/9 Im Microware; COCO Im Tandy; MSDOS Im Microsoft.

"Turner Talks Back"

Ring.
Ringinng — ring.

Hello — Sure I know what today is . . . it's January 30th. My March update? Ah, would you believe it's in the mail? You wouldn't? Well, ah, ah . . .

One of the problems in writing a non-tutorial column for a publication like ours, is how to make it look current, when in fact, it was written 30 to 45 days ago. I really shouldn't complain though, because while I was writing for Interface Age in the late 70's, I had to submit the material as much as 90 days in advance. Even at that I had it made . . . a friend of mine had to write 6 months in advance!

Speaking of writing, why don't you try your hand at it? We have many opportunities within the OS-9 Users group. In fact, if you do submit any material for publication to the MOTD, you might become part of an elite group known as "world authors" — after all MOTD is distributed in the USA, England, France, Australia, Canada, Germany, Switzerland, Sweden, Japan, and others.

A user group such as ours, really only has one purpose: to provide education to its members, and to disseminate information to the general public.

Ideally, the information being disseminated should be related to, but is not restricted to, OS-9. Other topics are not only desirable, but they are necessary. For example, many of our members are new to computing, and have no "formal" training in how to do things the "right way." Other members, are "old-timers" in data processing, but do not have the foggiest idea of how to use OS-9 effectively. In fact, even some of the vendors that supply OS-9 products could stand a little more education.

For instance, I was first introduced to "Accounting Machinery" in the late 50's, and have been involved in all phases of what is now called Software Engineering ever since. I have designed and implemented anything from new computer languages to operating systems, and applications that range from "Teacher Roll books" to large on-line systems that process in excess of 250,000 transactions a day from networks of 4000 or more terminals. I have used machines that would fit in the palm of your hand, along with distributed processing networks spread out across the entire U.S.A. I once assisted in the design and coding of a

system where the source code was being shipped via satellite between the U.S., Canada, and England.

And yet, even with all of this background, I couldn't figure out how to turn "PAUSE" off inside an OS-9 procedure file. (XMODE won't work on a GIMIX-III with its memory protection and TMODE apparently didn't work either.) So I called the OS-9 member that was nearest me for some assistance . . . Brian Lantz.

I then learned all about the reasons why you code ">/IT4" on the procedure command line, rather than on EVERY line inside the procedure.

I also learned what "TMODE .I - PAUSE" really does . . . but more on that some other time. Thanks Brian, I guess you really do know what goes on inside the shell!

Yet another time, Mike Magnus spent 10 to 15 minutes on the phone with me, while we tried to find out why "TMODE" in an OS-9 procedure file tries to report on device "/H0". Do you know why? I do NOW!

What does this have to do with the OS-9 Users Group?

Simple, we have banded together to form a mutual assistance group for each other. Having joined such a group, each of us has the responsibility to provide assistance to each other — and each time we provide that assistance, we have increased our personal knowledge as well. I don't know about you, but I usually learn considerably more about a subject in trying to explain it to someone else, than I would if the knowledge were only for myself.

Each of us joined this group so that we would be exposed to other knowledge and techniques on how to make better use of OS-9. Some of us joined so that we would find better ways to do "work", and thus provide more "free time" to allow us more time to do what WE wanted to do.

Knowledge is like Stone Soup — It gets better when everybody contributes something to the pot.

As an officer, one of my major concerns is "How can I help provide the opportunities that a member can use to both GIVE and receive usable knowledge?"

This can be done in a number of ways, some of which are already working, some of which are planned for the future. This

is a partial list of what I've thought of, if you have any additional items, please jot them down and send them to me.

- 1) Newsletter (MOTD)
- 2) Maintenance of a "Public Domain" software library.
- 3) Regional Meetings, Seminars, Conferences, and the published reports that go along with endeavors like these.
- 4) A document depository that would contain copies of refereed papers that would be available to members.
- 5) Training material.
- 6) Special Interest groups.

Let's discuss each of these, one by one:

1) I like the new format of the MOTD, but everybody needs to submit articles, tips, etc. to keep it moving smoothly. If I can find the time to write, so can YOU. Tutorial material is easy to write. Jot down some notes. Put it aside for a day or two. Pick it back up. Read it. If you can understand what is written without reading between the lines, submit it. Easy. Try it. You'll like it.

2) The Software Library is in good hands, and is very impressive, especially when you consider how long it has been in existence. While I'm thinking of it, software submissions should be sent directly to the UG address in Des Moines, to prevent delays similar to what happened to Bill Brady's XY Pen plotter program. Sorry Bill, the delay was entirely my fault.

3) Meetings and Seminars. Now there is a hot potato. We are working on the details for the Palo Alto RAINBOWfest. More details later on how it worked out. If you were there, glad to have met you. If you weren't, hope to see you soon somewhere else . . .

One of the items that we have been tossing around, is the idea of producing an informational packet that members could use as an assist in describing OS-9 and the Users Group at other computer club meetings. If any of you have ideas, or copies of similar material produced by other organizations, please send it to me thru our Des Moines Address.

I would also like to be able to solicit a "call for papers" for future seminars, and be placed in the position of having too many submissions . . . In fact, if you would like to prepare a seminar paper, please contact me and we'll see what happens.

On the subject of meetings, what I'd like to propose is that each of you attempt to make OS-9 known to others in your area. For example most CoCo clubs would like to learn something about OS-9, and I'm sure that some of the other computer groups would be interested in learning about a multi-tasking, multi-terminal operating system . . . To my knowledge, no other processor has an operating system just like ours, unless it is one of the other UNIX-like systems.

Even the new kid on the block, the AMIGA, only supports a single terminal, and I believe, up to three tasks, so OS-9 is much more flexible. Speaking of FLEX, or more accurately UNIFLEX, it is interesting to note that UNIFLEX and OS-9 are somewhat comparable. UNI-

FLEX has a slightly better data transfer rate from disk, but OS-9 is far more flexible in the area of device drivers, supporting external equipment, and handling real time tasks.

Microware, take note: Sure do wish that you could improve the disk transfer rate for program data on the 6809 processors . . . (In all fairness, there has been work in this area on the 68K systems.) Now if we only had 17 zillion trained apes, we could migrate some of the improved code back to the 6809 . . . Oh well, I really can't complain. Microware has done a very excellent job with a very small staff (as computer companies go), and the priorities that have been set are correctly set (even if I would like faster access . . .).

4) Refereed Papers. What I envision here is a collection of papers that were submitted by the membership, and are made available to the membership "at cost." In other words, for a dollar or two (plus postage), you might be able to purchase a copy of a small report or even a collection of reports on the same topic. These might be "research papers" or down to earth "how-to's." The purchase price might even provide for a "royalty" to the original author. I'm not sure, what do you think? Again, if you have any ideas or comments, please contact me.

5) Training materials. This is intended to be a way of either "renting" or "purchasing" materials from a training library, to be used in describing OS-9 to small groups of individuals. If you have any materials, or would like to produce some, contact me and we'll get the ball rolling.

6) Special Interest groups. Some members would like to start special interest groups, or "birds of a feather" sessions. If you have a special interest, let me know, and I'll try to get people in contact with each other.

Right now, we have a request to start a special interest group for people interested in "Machine Control" as in automated production lines or equipment. Furthermore, I am interested in "GRAPHICS", any other ideas?

In all of the above ideas, one concept is paramount:

"Any project undertaken by the Users Group, MUST be self-sustaining." Some projects may receive most or all of their financial support from the UG treasury. Others will only receive some support. Some projects may have to stand on their own merit from the start, others may receive funding only during their startup period. Each project will be evaluated on a case-by-case basis.

As you can see, we have a lot of good ideas on how information can be disseminated. BUT, without your assistance, nothing will happen.

As we say in Amateur Radio, 73's, and I'll see you down the log. I can be contacted via mail at our Des Moines address, if you mark the letter with "ATTN: Vice President", or if you wish, via the DELPHI system as "OS9UGVP" or "WB4ALM."

Bill Turner, WB4ALM
Vice President.
OS-9 Users Group

"Rules of the Road for

"Constitution of the OS-9 Users Group"

ARTICLES OF INCORPORATION OF OS-9 USERS GROUP, INC.

TO THE SECRETARY OF THE STATE OF IOWA:

The undersigned, acting as the incorporator of a corporation under the Iowa Nonprofit Corporation Act, Chapter 504A, 1985 Code of Iowa, adopts the following Articles of Incorporation for such corporation:

ARTICLE I

Name of Corporation

The name of the corporation is OS-9 Users Group, Inc.

ARTICLE II

Duration

The corporation shall have perpetual duration.

ARTICLE III

Purpose

The corporation is organized exclusively for educational and scientific purposes within the meaning of Section 501(C)(3) of the Internal Revenue Code of 1954, and not for pecuniary profit.

ARTICLE IV

Inurement of Income

No part of the net earnings of the corporation shall inure to the benefit of, or be distributable to, its members, trustees, officers or other private persons except that the corporation shall be authorized and

empowered to pay reasonable compensation for services rendered.

ARTICLE V

Legislative or Political Activities

No substantial part of the activities of the corporation shall be the carrying on of propaganda or otherwise attempting to influence legislation and the corporation shall not participate in or intervene in (including the publishing or distribution of statements) and political campaign on behalf of any candidate or public office.

ARTICLE VI

Operational Limitations

Notwithstanding any other provisions of these articles, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal Income Tax under Section 501(c)(3) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue Law) or (b) by a corporation, contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue Law).

ARTICLE VII

Dissolution Clause

Upon the dissolution of the corporation, the Board of Directors shall, after paying or making provisions for the payment of all the liabilities of the corpora-

tion, dispose of all of the assets of the corporation exclusively for the purposes of the corporation in such manner or to such organization or organizations organized and operated exclusively for charitable, educational, religious or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(C)(3) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue law), as the Board of Directors shall determine. Any of such assets not so disposed of shall be disposed of by the Circuit Court of the country in which the principal office of the corporation is then located, exclusively for such purposes or to such organization or organizations as said Court shall determine, which are organized and operated exclusively for such purposes.

ARTICLE VIII

Registered Office and Agent

The address of the initial registered office of the corporation in the County of Polk is 410 Hubbell Building, Des Moines, Iowa 50309 and the name of its initial registered agent at such address is John J. Gajdel.

ARTICLE IX

Director

The number of Directors constituting the initial Board of Directors of the corporation is three (3) and the names and addresses of the persons who are to

serve as Directors until the first Annual Meeting of Members or until their successors are elected and shall qualify are:

Dale Puckett, 6516 Hillside Lane, Alexandria, Virginia 22306 George Dorner, 2163 Vermont Street, Rolling Meadows, Illinois 60008 Brian A. Lantz, 6403 N. Paddock Ave., Tampa, Florida 33614

ARTICLE X

Corporate Seal

The corporation shall have no seal.

ARTICLE XI

Incorporator

The name and address of the incorporator is John J. Gajdel, 410 Hubbell Building, Des Moines, Iowa 50309.

Dated the 1st day of November, 1985.

John J. Gajdel, Incorporator

STATE OF IOWA:

SS.

POLK COUNTY :

On this 1st day of November, 1985, before me personally appeared John J. Gajdel, to me known to be the person named in and who executed the foregoing Articles of Incorporation and acknowledge that he executed the same as his voluntary act and deed.

Beth I. Dowd
NOTARY PUBLIC IN AND FOR
THE STATE OF IOWA

"OS-9 Users Group By-Laws"

ARTICLE I — NAME

The name of this organization shall be "OS-9 Users Group, Inc." All references herein to OS-9 UG shall be to the corporation.

ARTICLE II — PURPOSE

The OS-9 UG is a non-profit corporation incorporated in the State of Iowa, whose objects and purposes are as follows:

1. The corporation is organized exclusively for educational and scientific purposes within the meaning of Section 501(C)(3) of the Internal Revenue Code of 1954, and not for pecuniary profit.
2. To stimulate and sustain interest in computers in general and in the OS-9 operating system in particular.
3. To promote the cooperation and exchange of information, education, and cooperation among the members and the general public.
4. To conduct educational programs and activities for the purpose of advancing the knowledge and general interest of the members in computers and the OS-9 operating system.

ARTICLE III — OFFICES

The official mailing address of the OS-9 UG shall be 9743 University Avenue, Suite #330, Des Moines, Iowa, 50322. The Board of Directors of the OS-9 UG, as specified in BY-LAW IX of the By-Laws of this organization, may maintain additional offices at other locations, either within or without the State of Iowa, or may change the official mailing address provided all required notifications are made. The Board of Directors may contract for the use of facilities and services as it sees fit to further the stated purposes of the OS-9 UG or to reduce the workload of the Directors.

For all accounting and tax purposes, the fiscal year shall be a calendar year.

ARTICLE IV — PROHIBITED ACTIVITIES

SECTION 1: Legislative or Political Activities

No substantial part of the activities of the corporation shall be the carrying on of propaganda or otherwise attempting to influence legislation and the corporation shall not participate in or intervene in (including the publishing or distribution of statements) any political campaign on behalf of any candidate for public office.

SECTION 2: Inurement of Income

No part of the net earnings of the corporation shall inure to the benefit of, or be distributable to its members, trustees, officers, or other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered.

No member, director, or officer of the OS-9 UG shall be financially interested, directly or indirectly, in any agreement relating to the operations of the OS-9 UG, nor in any transaction for providing services, facilities, or supplies to the OS-9 UG for compensation, UNLESS the fact of such interest be disclosed to and known by the Board of Directors, and UNLESS such agreement or transaction shall be authorized by a majority of the directors who have no interest, direct or indirect, in such agreement or transaction.

SECTION 3: Operational Limitations

Notwithstanding any other provisions of the Articles of Incorporation or BYLAWS, the corporation shall not carry on any other activities not permitted to be carried on (A) by a corporation exempt from federal income tax under Section 501(C)(3) of the Internal Revenue Code of 1954, (or the corresponding provisions of any future United States Internal Revenue law) or (B) by a corporation, contributions to which are deductible under Section 170(C)(2) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue Law).

SECTION 4: Copyright Laws

It shall be the permanent policy of the OS-9 UG that this organization shall encourage and protect the interests of copyright holders, to the extent permitted by these By-Laws, and shall prohibit the theft or piracy of copyrighted material by any member. Proof of theft, by any member, shall result in dismissal from

this organization, as regulated by Standing Rule 1 - Policies of Dismissal.

ARTICLE V — DISOLUTION

The OS-9 UG may only be dissolved by 2/3 vote of the active membership attending a properly scheduled business meeting or voting by a supplied written ballot in their absence. Upon the dissolution of the corporation, the Board of Directors shall, after paying or making provisions for the payment of all the liabilities of the corporation, dispose of all of the assets of the corporation exclusively for the purposes of the corporation in such manner or to such organization or organizations organized and operated exclusively for charitable, educational, religious or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(C)(3) of the Internal Revenue Code of 1954 (or the corresponding provisions of any future United States Internal Revenue law), as the Board of Directors shall determine. Any of such assets not so disposed of shall be disposed of by the Circuit Court of the country in which the principal office of the corporation is then located, exclusively for such purposes or to such organization or organizations as said Court shall determine, which are organized and operated exclusively for such purposes.

ARTICLE VI — MEMBERSHIP

SECTION 1: Admission

The OS-9 UG shall have one class of membership. Any person who maintains currency in matters of dues or fees shall be deemed a MEMBER.

SECTION 2: Membership Dues and Fees

All dues and fees shall be reviewed at least once each year to determine whether any adjustments need to be made. It shall be the responsibility of the Board or its appointed representative(s) to review said dues and fees and make appropriate recommendations. Any adjustments to the cost of dues and fees shall be determined by the Board of Directors.

SECTION 3: Dismissal of Members

A. Neglect of Dues and Fees

Any member who does not maintain currency in the matters of dues or fees shall no longer be considered a member in good standing. If this matter is neglected for a period greater than 12

months, the Board of Directors may, at their descretion, dismiss the delinquent member.

B. Improper Conduct

Any member found in violation of Article IV of these By-Laws, (Prohibited Activities) including the theft or piracy of copyrighted material shall be immediately and permanently expelled from the membership of this organization.

C. Means of Dismissal

No member can be dismissed without a majority vote of the Board of Directors. Dismissal of members is further regulated by Standing Rule 1 — Policies of Dismissal.

ARTICLE VII — MEETINGS

SECTION 1: Annual Meeting

The annual meeting of the members of the corporation shall be held in the last quarter of the fiscal year of the corporation at such date, place and time, as will be determined by the Board of Directors. Notice of the annual meeting shall be published in the corporation's newsletter and distributed to the members at least ten (10) days prior to the meeting.

SECTION 2: Special Business Meetings

Additional business meetings of the OS-9 UG may be called by the President throughout the year, or may be requested by the Board of Directors. Notice of such meetings shall be handled the same as with the Annual Meeting.

SECTION 3: Voting

A. Presentation before the Membership

The Board of Directors shall determine which matters are of concern to the general voting membership and shall also determine whether the votes of the membership shall be binding upon the officers in that matter or shall be considered as a general guideline to the officers. The only exception to this shall be that the annual election of officers outlined in ARTICLE VIII, SECTION 1 shall in all regards be binding.

B. Eligibility

Any person who is a member in good standing at the time of any election or business meeting shall be entitled to one vote on each matter submitted to a vote of the members.

SECTION 4: Agenda

All items to be considered on the agenda of a

the OS-9 Users Group

meeting should be presented to the Board in writing at least one week before the date of the meeting to allow time for it to be included in the official agenda. Any items not in the official agenda may still be presented at a meeting, but will be under time consideration as specified by the Chair on an individual basis.

SECTION 5: Quorum

A quorum consists of those members who attend the business meeting, provided that it has been properly called and announced.

ARTICLE VIII — OFFICERS

SECTION 1: Elected Officers

A. Elected Officers

The elected officers of the OS-9 UG shall exercise all powers of the corporation and perform all lawful acts in accordance with the stated purposes of the OS-9 UG, as directed by the Board of Directors. The elected offices of the OS-9 UG shall be President, Vice-President, Secretary, and Treasurer.

B. Term

Elected officers shall serve for a term of at least one year, or until their position is filled by a newly elected officer. There shall be no limit to the number of terms an officer may serve in office, other than the requirement that the general membership elect to have him continue to serve.

C. Vacancy of Elected Offices

An elected officer may resign his position at any time by submitting a letter to the Board. In the event of the vacancy of the Presidency, the Vice-President shall immediately assume the office of President and the office of Vice-President shall be vacant. In the event that the Vice-President cannot fill the vacant position of President, the office shall next pass to the SECRETARY, then to the TREASURER.

In the event of the vacancy of any elected office other than the Presidency, the Board shall, by 2/3 vote, appoint a member to fill the vacancy and finish the term of the vacant office. No elected office shall remain vacant more than 30 calendar days.

When appointments are made to elected offices, the Board shall be responsible for notifying the entire membership of the change in a timely manner, using the newsletter or by other means determined by the Board.

D. Election of Officers

1. Nominations

The Board of Directors shall supply at least one nominee of each elected office each year. The Board shall provide a method for nominations to be recorded from the membership which shall insure the participation of any member who wishes to do so. The ballot shall be limited to five nominations for each elective office. In cases where more than five members are nominated for any given office, the Board shall appoint a select committee to make the final determination of the names to be selected for the ballot to be submitted to the membership. No member may be placed in nomination who indicates an unwillingness to serve if elected.

2. Election

The Board of Directors shall provide a method of voting for the nominated officer candidates which shall insure the participation of any member who wishes to do so. A simple majority of the votes cast shall be sufficient for the election of a candidate to office. In the event of a tie, the Board of Directors shall break the tie by a method determined by them.

E. PRESIDENT

The PRESIDENT shall be the chief elected officer and shall preside at all meetings of the Board of Directors, all special meetings and at the annual meeting. The PRESIDENT shall perform all of the duties of the office as determined herein and by custom, as well as those duties deemed necessary by the Board to further the purposes of the organization.

F. VICE-PRESIDENT

The VICE-PRESIDENT shall assist the President and shall act in the absence of the President.

G. SECRETARY

1. The SECRETARY shall be responsible for all official correspondence of the OS-9 UG.

2. The SECRETARY shall also be responsible for keeping the minutes of Board meetings, all special business meetings and of the annual meeting, and for forwarding copies of the minutes to all members of the Board of Directors.

3. The SECRETARY shall be responsible for keeping the records and minutes of the committee meetings that are forwarded to the Board.

4. The SECRETARY, with the assistance of the membership committee, shall be responsible for maintaining the accurate record of all information about the members.

5. The SECRETARY shall have the responsibility of making sure that all Board members have current copies of the BY-LAWS and the STANDING RULES at all times.

H. TREASURER

1. The TREASURER shall be the custodian for all funds of the OS-9 UG. The TREASURER, with the assistance of the finance committee, shall act in a responsible manner under the direction of the Board of Directors to disburse such funds as are deemed necessary. The TREASURER shall be accountable for all funds received by the organization for any means whatsoever and for accurate records of the fixed and liquid assets of the OS-9 UG.

2. The TREASURER shall assure that the names of all elected officers are on file with any financial institution where funds of the OS-9 UG are deposited.

3. All financial books and records shall be considered to be the property of the OS-9 UG. The TREASURER shall provide in writing an account of all income and expense transactions to the Board of Directors upon request. A condensed report shall be submitted to the Editor for inclusion in the newsletter on a quarterly basis.

SECTION 2: Appointed Officers

A. Appointed Officers

In addition to the elected officers, there shall be at least two appointed officers: Librarian and Editor. They shall serve by the pleasure of the President and shall have voting privileges on the Board of Directors. Their appointment must be approved by the Board.

B. Term

Appointed officers shall serve for one year from the date of their appointment.

C. Vacancy of Appointed Offices

An appointed officer may resign his position at any time by submitting a letter to the President. In the event of the vacancy of an appointed office, the President shall appoint another member to fill the vacancy and finish the term of the vacant office, pending the same approval of the Board.

D. Formation of Additional Appointed Offices

Additional appointed offices may be created by the Board as deemed necessary for the furtherance of the work and purpose of the OS-9 UG. Upon the creation of such offices, the President will outline the work of each office and submit such to the Board for approval. Upon approval, that same information shall be made a part of these BY-LAWS, without the necessity of a formal amendment, as detailed in ARTICLE XI.

E. Elimination of Appointed Offices

In the event that an appointed office is no longer deemed necessary for the furtherance of the work and purpose of the OS-9 UG, the Board may eliminate the office by 2/3 vote. Upon elimination of any appointed office, all information about said office shall be removed from these BY-LAWS, without the necessity of a formal amendment, as detailed in ARTICLE XI.

F. LIBRARIAN

1. The LIBRARIAN shall coordinate all arrangements for growth and maintenance of the OS-9 UG software library, insuring that only public domain programs or programs specifically contributed to the OS-9 UG are available within the library. Release forms shall be maintained for all programs not in the public domain.

2. The LIBRARIAN shall prepare a SOFTWARE LIBRARY INDEX for publication on a yearly basis.

3. The LIBRARIAN shall propose procedures for the distribution of the software library contents to the Board of Directors for approval and implementation.

G. EDITOR

1. The EDITOR shall be responsible for the timely publication of the OS-9 UG newsletter, MOTD. The MOTD shall serve as the basic communication medium with all members. All official notifications shall be placed in the newsletter.

2. The EDITOR shall propose procedures for the publication and distribution of the newsletter to the Board of Directors for approval and implementation.

SECTION 3: Delegation of Duties

An officer may delegate duties to any member or to a paid non-member with the consent of the Board of Directors.

SECTION 4: Benefits

A. Elected officers will receive their membership free for all years in service, as well as all years following termination of their term of office.

B. Appointed officers will receive free membership during each year of service on the Board.

C. Officers shall receive reimbursement for all reasonable expenses incurred that are approved in advance by a 2/3 vote of the Board.

D. Gifts or honoraria to anyone and for any reason shall in no case exceed \$150 per person per year.

ARTICLE IX — BOARD OF DIRECTORS

SECTION 1: General Powers

The business and affairs of the OS-9 UG shall be managed by its BOARD OF DIRECTORS, which shall direct the elected officers to perform the wishes

of the OS-9 UG. The decisions of the Board of Directors shall in all cases be binding on the elected officers.

SECTION 2: Size of the Board

The BOARD OF DIRECTORS shall consist of no less than five members and no more than eleven members. At all times, the Board shall consist of an odd number of members, to eliminate the possibility of stalemate votes.

SECTION 3: Composition

The BOARD OF DIRECTORS shall consist of only members of the OS-9 UG. The actual make-up of the BOARD is in three levels:

A. Elected Officers

The elected officers of the OS-9 UG, as described in ARTICLE VIII of this document, assume a position on the Board upon taking formal office.

B. Directors-At-Large

The Directors-at-Large shall be appointed by the President at any time during his tenure. The first responsibility of the President upon taking office shall be appointing one Director to make the size of the Board meet the directive set in ARTICLE IX, SECTION 2. There shall at no time be less than one Director on the Board. After approval of the Appointed Officers, the President may appoint additional Directors to fill positions on the Board, within the guidelines specified in ARTICLE IX, SECTION 2, though all other appointed Directors must be approved by the existing Board of Directors.

DIRECTORS-AT-LARGE shall serve for one year from the date of their appointment. A Director may resign his position at any time by submitting a letter to the President.

C. Appointed Officers

The first responsibility of the Elected Officers and first appointed Director shall be the approval of Appointed Officers, as recommended by the President. Upon their approval, the appointed officers become members of this Board.

BOARD MEETINGS may be called by the President. A meeting may also be called by any officer upon the consent of at least one half of the current Board of Directors. The Board of Directors may participate in a meeting by means of personal attendance, a conference telephone call, via electronic mail, or by similar arrangements provided that a majority of the current Board of Directors may so participate and that it is handled in a manner that is consistent with the current STANDING RULES. Participation in any such arrangement shall constitute presence at such meeting.

The President shall preside at all Board meetings.

SECTION 5: Benefits for

Directors-At-Large

Directors will receive free membership during each year of service on the Board.

SECTION 1: General

A. Certain standing committees shall be a part of the permanent organization of the OS-9 UG and their duties are detailed in this instrument.

B. The President and the Board of Directors may create such other standing committees as may be deemed necessary for the furtherance of the work and purpose of the OS-9 UG. Upon the creation of such committees, the President will outline the work of each committee and submit such to the Board for approval. Upon approval, that same information shall be made a part of these BY-LAWS, without the necessity of a formal amendment, as detailed in ARTICLE XI.

C. It shall be the responsibility of the Board or its appointed representative(s) to review the job descriptions for all OS-9 UG committees and submit suggested changes for the Board's approval. Upon approval, the revised job descriptions will replace the former one in this instrument, also without the necessity of a formal amendment, as detailed in ARTICLE XI.

D. All committee members shall be approved by the Board. The chairman of each committee shall be appointed by the President.

E. Each committee shall have at least 4 members, plus the President or a representative appointed by him, unless otherwise specified in these BY-LAWS.

F. The President, or other member designated by him, will be a member of each committee and will be notified in advance of all meetings.

G. Either the chairman of a committee or the President may call a meeting of that committee. It is suggested that each shall confer with the other concerning the matter to which the committee is giving attention.

H. The chairman of the committee is responsible for reporting the work and the recommendations of his committee to the Board. All recommendations from committees to the Board shall be presented in writing.

I. The chairman of the committee is responsible for appointing a clerk for the committee, who will have the responsibility of sending written copies of all minutes and reports to all members of the committee and to the SECRETARY of the OS-9 UG.

J. An attempt will be made to notify all members of any meeting and no meeting will be held unless attended by at least 1/2 of the members plus the President or a representative from the Board designated by him.

K. Committee members may participate in a meeting by means of personal attendance, a conference telephone call, via electronic mail, or by similar arrangements provided that a majority of members of the committee, including the President or his representative, can participate and that it is handled in a manner that is consistent with the current STANDING RULES.

L. It shall be remembered that the responsibility of committees is advisory only except where the Board has definitely delegated authority.

SECTION 2: Finance Committee

A. Advises with the President, Treasurer, and the Board of Directors regarding the financial affairs of the OS-9 UG.

B. Secures budget requests from Board members and committee chairmen and prepares a recommended budget.

C. Works with the leaders, Board members and chairmen within the OS-9 UG to see that each one operates within the adopted budget line.

D. Presents recommendations for adjustments in budget, with the understanding that such adjustments will be made after a vote of the Board.

E. Has responsibility for arranging for an audit of OS-9 UG financial records, as requested and seen to be necessary by the Board.

SECTION 3: Membership Committee

A. Processes all requests for membership in a timely manner, providing a list of all new members to the Board on a monthly basis.

B. Processes all membership renewals.

C. Maintains the active membership records, including all appropriate information about individual members.

D. Provides a MASTER MEMBERSHIP INDEX to the Board at least once a year and upon special request of the Board.

SECTION 4: Public Relations Committee

A. Provides information to the general membership of all activities of the OS-9 UG.

B. Uses all forms of the media available to promote the OS-9 UG and to fulfill the purposes of this body, as specified in the By-Laws.

C. Serves to help solidify the relationship between vendors, distributors, and the OS-9 UG, in accordance with the purposes and policies of this organization.

SECTION 5: Select Committees

A. Creation of a Select Committee

Any other committees that are determined to be necessary by the Board for the furtherance of the purposes of this body, shall be created by the Board of Directors. The chairman of the committee shall be appointed by the Board.

B. Size of Select Committees

The size of a select committee shall be determined on an individual basis by the Board at the time of creation.

C. Termination of a Select Committee

A select committee may be created for a single purpose, for a fixed duration of time, or on an indefinite basis as determined by the Board of Directors. No select committee shall be organized any longer than is necessary to produce the goal given it by the Board.

ARTICLE XI — AMENDMENT

SECTION 1: BY-LAWS

The BY-LAWS shall be reviewed at least once each year prior to the end of the fiscal year to determine whether any amendments are in order. It shall be the responsibility of the Board or its appointed representative(s) to review said by-laws and make appropriate recommendations. With the exception of the specific sections covered in ARTICLES VIII and X of this document, the by-laws may only be amended by a 2/3 majority vote of the Board of Directors, provided the recommendations and the vote date shall have been published in the newsletter. A vote on the amendment of the by-laws shall not be taken until at least five weeks after the newsletter describing the proposed changes has been mailed.

SECTION 2: STANDING RULES

In addition to the BY-LAWS, their shall be a set of STANDING RULES that shall govern the actions of the OS-9 UG. These STANDING RULES shall be reviewed at least once each year prior to the end of the fiscal year to determine whether any amendments are in order. It shall be the responsibility of the Board or its appointed representative(s) to review said STANDING RULES and make appropriate recommendations. The STANDING RULES may be amended by a 2/3 vote of the Board, without prior notification to the membership.

SECTION 3: RULES OF ORDER

Roberts' Rules of Order, Newly Revised shall be the accepted authority on all points not covered by the BY-LAWS, or STANDING RULES of the OS-9 UG.

SOFTWARE EXCHANGE NEWS

By Dave Kaleita

Greetings once again! I have good news, and bad news . . .

The good news is that the OS-9 Users Group Software Library has continued to grow in the last six months. This has enabled us to complete a total of about 40 individual volumes in the series of disks that Carl Kreider and I began creating over two years ago. More good news is that, after implementing a couple of changes in the way disk sales are handled through the users group, the software exchange may finally become a financially self-sustaining endeavor!

The bad news is that, because of the good news above, things MIGHT just cost you just a little bit more from now on. I say MIGHT, because there is a new way for you to obtain a copy of the ENTIRE Library for a MUCH lower cost than it would otherwise cost you to buy each individual volume at five bucks a crack. Let me explain:

First of all, EFFECTIVE IMMEDIATELY, all individual Library Volume disks will be available to OS-9 Users Group members at a cost of \$5.00 per 5" disk and \$8.00 per 8" disk. This new cost (finally) is an attempt to reflect the TRUE cost of running the software exchange. Believe it or not, the UG was actually losing money on each and every disk sold at the old prices (more than \$2.00 each in the hole for 8" disks), even though neither Carl Kreider nor I receive ANY monetary compensation whatsoever for our efforts (I don't want to sound like I'm blowing my own horn, but HOW'S THAT FOR DEDICATION!). Seriously, we are doing what we do because we believe in OS-9 and what it can do for ALL of us if we work together.

I for one feel that this cost increase is MORE than justified.

One more pitch for the new prices: Please be aware that there had been talk of raising membership dues to supplement the Software Exchange losses. I felt that only those using this admittedly valuable service should bear the expense of its operation. Hence, dues remain at \$25 per year, but the disk prices go up. Fair? I think so. If you disagree, we'd LOVE to hear from you! Send your cards, letters and electronic mail to Bruce Warner, Brian Lantz or myself (If you send it to Bruce, you just might get your letter published in a future issue of MOTD!).

More good news. Now after telling you how its going to cost you more money to keep up with the Library, I'm going to tell you how to get it CHEAPER than was possible before the price increase! How? Well, we have made arrangements to now offer the ENTIRE Library in complete set. There are, however, a few catches. First and most importantly, the set will be available ONLY on 80 track double-sided double-density 80 track (96 tpi) disks in STANDARD (i.e., non-CoCo) format ONLY. Please re-read that last sentence carefully. It means that if you are running OS-9 on a TRS-80 Color Computer, you will need to have at least one 80 track DS DD drive on your system and be able to use it under OS-9. In case you don't have an 80 track drive now but are considering getting one, please be aware that it will require some special software to make the drive usable under OS-9 — software that Tandy/Radio Shack DOES NOT sell or support! This is indeed unfortunate, but due

to the many problems with keeping the Master Library, it is impractical to continually maintain and update it in multiple formats as new software is received. Here's the good part: the Library set will be available to OS-9 Users Group members at a cost of \$10xN, where N is the total number of 80-track disks it takes to hold it all (remember algebra class?). At the time of this writing, the Library fits on seven (7) such disks. This means that the set will cost you \$70 until further notice. Doing it this way allows us to keep the value relatively constant as the Library continues to grow.

Remember that the software in the OS-9 Users Group Library has all been certified (by the submitters) to be in the public domain. This means that it is perfectly alright to go in on the disk order purchase with your friends and make copies for each other. If you believe that any piece of software in the Library has NOT been placed in the public domain by the original author, PLEASE LET US KNOW!!!! Furthermore, if you believe that YOU have been legally assigned the copyright on anything in our Library, please send us a copy of the statement assigning that copyright to you (showing the original author's signature) IMMEDIATELY so we can promptly remove the item in question from our distribution. Software theft is a terrible thing and we will not, under any circumstances, condone it.

Speaking of software submissions, the growth of the OS-9 Users Group Library has had some additional effects on the operations of the software exchange. Specifically, certain directories in the master Library have grown too large to fit on a single 80 track disk. This may not sound like it concerns all of you, but because this is the format that I keep the master Library in, I am forced to rearrange things a bit. Remember DocGen2? DocGen2 is the Basic09 program that all Library software submitters have been requested to run as an aid to my Library maintenance endeavors. This program

generates the special data base files that I need to keep the Library in order. All software submitters who run this program and send the generated files and signed submission form along with their Library contribution is sent a free Library volume disk of their choice in return. Well, to make a long story short, the FORMAT the master Library is kept in is hard-coded into DocGen2. This means that, to accommodate the changes I have had to make in the format of the master Library, DocGen2 must now become "DocGen3." The next update of the Library Volume #0 disk (the one you get "free" when you first join or renew your membership in the OS-9 Users Group) will contain the new DocGen3 program. If you are planning to donate any software to the UG Library, I urge you to USE DOCGEN3!!! It will save me LOTS of work (enough to make me consider continuing to do this dirty work for free for another year). I will also upload DocGen3 to the OS-9 SIG on CompuServe and probably DELPHI very soon. As soon as you get it, please throw away all previous versions of "DocGen" that you may have lying around. As I mentioned, the data bases that these earlier versions generate are not compatible with the present Library and will only give me MAJOR headaches.

This issue of MOTD contains a complete catalog of everything that presently appears in the OS-9 Users Group Library. The catalog is divided into sections, each giving a brief description of each program in a particular volume of the Library. Note that the last section describes about 50 pieces that have not yet been assigned to an individual Library volume disk. They appear in the list because they DO appear on the seven-disk set of the entire Library and will almost certainly be of interest to somebody. As additional individual Library volumes are completed, I will tell about them here.

That's about it for now. Happy Computing!

USERS GROUP LIBRARY, WHAT'S IN IT?

by Librarian, David L. Kaleita

(Editor's Note: There have been a number of questions about what is in the OS-9 Users Group Library, and there is no easy way to answer that question. The best way is to provide you with a complete, commented listing of all the programs in the library in the order of the disk they appear on. This is no easy task. It takes a lot of time and effort to keep an up-to-date listing of all the UG Software. Thanks to David L. Kaleita, Librarian, we have a complete listing of all software currently available in the library. See his column elsewhere in this issue for information on ordering Users Group disks.)

Volume #0, New Member Introduction
(40 track, single-sided)

Title: REMOTE From: SEATON, WM. GLENN
Ver: 1 Lang: ASM.6809 Fmt: SOURCE
Function: "LINKS" USER TO A SPECIFIED REMOTE TERMINAL PATH FOR COMMUNICATION.
Program Type: COMMUNICATION

Title: LLOAD From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: UPLOADS A TEXT FILE, ONE LINE AT A TIME, TO A FULL-DUPLEX BULLETIN BOARD SYSTEM.
Program Type: COMMUNICATION

Title: ATTR—CHG From: WAGGONER, ROLAND T.
Ver: 07/28/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: attr—chg pgm on ug. volume 0. Allows optional verification of changes before they are made. Fixes a bug.
Program Type: FILE MAINTENANCE

Title: DOCGEN2 From: KALEITA, DAVID L.
Ver: 2.05 Lang: BASIC09.6809 Fmt: SOURCE
Function: PROGRAM WHICH SHOULD BE RUN BY ALL WHO WISH TO CONTRIBUTE TO THE OS-9 UG LIBRARY. GENERATES SUBMISSION FORM AND DATA BASE FILES.
Program Type: FILE MAINTENANCE

Title: HCOPY From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PROMPTING "COPY" UTILITY
Program Type: FILE MAINTENANCE

Title: HDEL From: BERGVALL, BENGT-ALLAN
Ver: 07/30/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: MODIFIED HDEL FROM UG DISK #0 TO HANDLE EMPTY FILES AND TO BE RUN BY RUNB WITHOUT LEAVING PROCEDURE DOCMD IN MEMORY.
Program Type: FILE MAINTENANCE

Title: HDIR.B From: ZIMMERMAN, DOUG
Ver: 05/ /84 Lang: BASIC09.6809 Fmt: SOURCE
Function: EXECUTES A HEIRARCHICAL DIRECTORY LISTING FOR AN ENTIRE DIRECTORY.
Program Type: FILE MAINTENANCE

Title: REHOOK From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: MOVES A FILE FROM ONE DIRECTORY TO ANOTHER (ON THE SAME DEVICE) WITHOUT "COPY/DELETE." WORKS LIKE THE C UTILITY "GRAFT."
Program Type: FILE MAINTENANCE

Title: DLIST From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: DISK DUMP UTILITY. WORKS LIKE "DUMP /D0@", EXCEPT YOU CAN START AT ANY SECTOR ON THE DISK.
Program Type: PROGRAMMING AID

Title: RMLOCATE From: KALEITA, DAVID L.
Ver: 1.02 Lang: BASIC09.6809 Fmt: SOURCE
Function: CALCULATES A RMS RECORD NUMBER FOR A GIVEN KEY FIELD.
Program Type: SUBROUTINE

Title: RMNEW From: KALEITA, DAVID L.
Ver: 1.01 Lang: BASIC09.6809 Fmt: SOURCE
Function: BASIC09-callable equivalent to Washington Computer Services' "RMSnew" utility. Used to generate a blank data file for RMS.
Program Type: SUBROUTINE

Title: DDIR From: SEATON, WM. GLENN
Ver: 1 Lang: ASM.6809 Fmt: SOURCE
Function: LISTS ACTIVE SYSTEM DEVICES, THEIR PATH DESCRIPTOR ADDRESS, PHYSICAL ADDRESS, SYSTEM BUFFER, DEVICE DRIVER & FILE MANAGER
Program Type: SYSTEM UTILITY

Title: HELP.A From: SEATON, WM. GLENN
Ver: 1 Lang: ASM.6809 Fmt: SOURCE
Function: PRINTS USER INFORMATION ON THE SPECIFIED FILENAME.
Program Type: SYSTEM UTILITY

Title: INSTALL From: KREIDER, CARL R.
Ver: 2 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: Makes bootable disk by "linking" a named file. Update of earlier version.
Program Type: SYSTEM UTILITY

Title: BOOTSPLIT From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: SPLITS MERGED OBJECT FILES (SUCH AS "OS9BOOT") INTO SEPARATE MODULES.
Program Type: SYSTEM UTILITY

Title: MODLIST From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PROMPTING "IDENT" UTILITY
Program Type: SYSTEM UTILITY

Title: QDIR From: WAGGONER, ROLAND T.
Ver: 07/29/84 Lang: BASIC09.6809 Fmt: SOURCE

Function: QDir program submitted on disk 0 by C.R. Kreider. Modified to output to standard output.
Program Type: SYSTEM UTILITY

Title: LISTN From: BERGVALL, BENGT-ALLAN
Ver: 07/29/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: DEBUGGED AND MODIFIED LISTN FROM UG DISK #0 TO EXIT CORRECTLY AND TO ALLOW STANDARD OUTPUT PATH REDIRECTION BY SHELL.
Program Type: TEXT FILE PROCESSING

Volume #1, Spelling Checker
(35 track, single-sided)

Title: DICT From: WILLIAMS, ERIC
Ver: 02/11/84 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: DICTIONARY LOOK-UP. FINDS WORDS IN DICTIONARY, OR, IF NOT FOUND, ATTEMPTS TO CORRECT THE SPELLING.
Program Type: MISC.

Title: SPELL From: WILLIAMS, ERIC
Ver: 02/11/84 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: SPELLING CHECKER. LISTS WORDS IN DOCUMENT NOT FOUND IN DICTIONARY.
Program Type: MISC.

Title: UNWORDS From: WILLIAMS, ERIC
Ver: 02/11/84 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: PRODUCES A CODED (COMPRESSED) DICTIONARY AS USED BY THE PROGRAMS "WORDS", "SPELL," AND "DICT."
Program Type: MISC.

Title: WORDS.C From: WILLIAMS, ERIC
Ver: 02/11/84 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: PRINTS UN-CODED WORDS FROM THE FILE "/D0/MISC/Dictionary", AS CREATED BY THE UTILITY "UNWORDS"
Program Type: MISC.

Volume #2, Spelling Dictionary
(40 track, double-sided)

This is a complete 80,000 word dictionary file, in compressed form, for use with the spelling checker on disk #1. The programs for uncompressing and re-compressing the dictionary from/to a simple (but incredibly large) list of words are included (in executable object form only) so you may also use this disk for word games or anything else that can use such a list.

Volume #3, Word Processing Utilities, Disk #1
(35 track, single-sided)

Title: WORDS.A From: DIBBLE, PETER
Ver: 05/24/82 Lang: ASM.6809 Fmt: SOURCE
Function: PARSES INPUT INTO WORDS AND OUTPUTS EACH WORD ON A SEPARATE LINE. (Note that "ADJ W1" and "SPLIF" also perform this function).
Program Type: FILE PROCESSING FILTER

Title: TEXCOM From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: COMPARE TWO TEXT FILES A LINE AT A TIME.
Program Type: PROGRAMMING AID

Title: TC From: KREIDER, CARL R.
Ver: 01/25/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Does line by line compare of text files & prints lines that differ.
Program Type: PROGRAMMING AID

Title: SQSH From: DIBBLE, PETER
Ver: 07/16/82 Lang: ASM.6809 Fmt: SOURCE
Function: "SQUASHES" TEXT FILES BY REPLACING EVERY CARRIAGE RETURN CHARACTER WITH A "/" AND EVERY STRING OF MORE THAN 1 SPACE WITH 1 SPACE.
Program Type: TEXT FILE PROCESSING

Title: SQSH From: DIBBLE, PETER
Ver: 07/16/82 Lang: ASM.6809 Fmt: SOURCE
Function: "SQUASHES" TEXT FILES BY REPLACING EVERY CARRIAGE RETURN CHARACTER WITH A "/" AND EVERY STRING OF MORE THAN 1 SPACE WITH 1 SPACE.
Program Type: TEXT FILE PROCESSING

Title: TRANSLIT From: BIALON, LAURA
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: TRANSLITERATION- AS DESCRIBED IN SECTIONS 2.7 THRU 2.9 OF THE BOOK "SOFTWARE TOOLS" BY KERNIGHAN AND PLAUGER
Program Type: TEXT FILE PROCESSING

Title: TAB.09 From: WILLIAMS, ERIC
Ver: 06/27/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: CONVERTS SPACES IN A TEXT FILE INTO TABS (ASCII 9) AND SPACES; TABS REPLACE GROUPS OF 8 SPACES. FOR FILE SIZE REDUCTION.
Program Type: TEXT FILE PROCESSING

Title: UNTAB From: WILLIAMS, ERIC
Ver: 10/15/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: REPLACES TAB (ASCII 9) CHARS IN THE SPECIFIED INPUT FILE WITH " "(EIGHT SPACES). FOR UNDOING THE "TAB" FILTER.
Program Type: TEXT FILE PROCESSING

Title: PRINT.B From: BIALON, LAURA
Ver: 08/02/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: FILE PRINTING UTILITY- ADAPTED FROM K&P's "SOFTWARE TOOLS"
Program Type: TEXT FILE OUTPUT ROUTINE

Title: SPLIT.09 From: WILLIAMS, ERIC
Ver: 09/09/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: LISTS TWO SPECIFIED TEXT FILES, SIDE-BY-SIDE ON AN 80 COLUMN SCREEN. ALLOWS VISUAL COMPARISON OF FIRST 38 CHARS OF EACH FILE.
Program Type: TEXT FILE OUTPUT ROUTINE

Volume #4, Programming Utilities, Disk #1
(35 track, single-sided)

Title: MODULE From: WILLIAMS, ERIC
Ver: 09/09/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: REMOVES THE NAMED MODULES FROM THE SPECIFIED FILE AND SENDS RESULT TO STANDARD OUTPUT. WORKS LIKE "IDENT" IF NO NAMES ARE GIVEN.
Program Type: BINARY FILE PROCESSING

Title: DCOPY.09 From: CAPOUCH, BRIAN
Ver: 2.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: FULL DIRECTORY COPY UTILITY
Program Type: FILE MAINTENANCE

Title: GRAFT From: WILLIAMS, ERIC
Ver: 09/23/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: COPIES A SUBTREE OF A DIRECTORY STRUCTURE. WORKS SIMILAR TO "DSAVE". EXCEPT AN INTERMEDIATE PROCEDURE FILE IS NOT CREATED.
Program Type: FILE MAINTENANCE

Title: MV.09 From: WILLIAMS, ERIC
Ver: 1.3 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: MOVES FILES FROM ONE SUBDIRECTORY TO ANOTHER BY MANIPULATING DIRECTORY REFERENCES (NO DATA IS ACTUALLY MOVED . . . VERY FAST!)
Program Type: FILE MAINTENANCE

Title: BINCOM From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PERFORMS A BYTE-FOR-BYTE COMPARE OF TWO SPECIFIED FILES
Program Type: PROGRAMMING AID

Title: MODBUILD From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE

Function: PROMPTING FILE "MERGE" UTILITY
Program Type: PROGRAMMING AID

Title: PWD From: DIBBLE, PETER
Ver: 06/23/82 Lang: ASM.6809 Fmt: SOURCE
Function: MORE POWERFUL VERSION OF MW'S "PWD" COMMAND
Program Type: SYSTEM UTILITY

Title: LATEST From: WILLIAMS, ERIC
Ver: 09/16/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: SCANS NAMED DIRECTORY AND ALL DIRECTORIES BELOW IT, PRINTING THE PATH NAME OF FILES WHOSE LAST MODIFIED DATE IS LATER THAN [DATE]
Program Type: SYSTEM UTILITY

Volume #5, File Processing Utilities, Disk #1
(35 track, single-sided)

Title: FLEXBIN.B From: KALEITA, DAVID L.
Ver: 1.06 Lang: BASIC09.6809 Fmt: SOURCE
Function: CONVERTS "FLEX-FORMAT" (COMPRESSED) BINARY FILES INTO FULL IMAGE (FULL SIZE, POSITION-DEPENDENT) BINARY FILES, READY TO "ROM."
Program Type: BINARY FILE PROCESSING

Title: HX From: DIBBLE, PETER
Ver: 06/05/82 Lang: ASM.6809 Fmt: SOURCE
Function: CONVERTS STANDARD INPUT DATA TO READABLE HEX DUMP FORMAT OUTPUT.
Program Type: FILE PROCESSING FILTER

Title: NEWSTRIP From: PUCKETT, DALE L.
Ver: 04/09/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Filter to strip all control characters except CRs out of standard input path.
Program Type: FILE PROCESSING FILTER

Title: SORT From: WILLIAMS, ERIC
Ver: 09/09/83 Lang: —INTROL.6809 Fmt: SOURCE & OBJECT
Function: SORTS LINES OF TEXT APPEARING AT STANDARD INPUT AND SENDS SORTED VERSION TO STANDARD OUTPUT.
Program Type: FILE PROCESSING FILTER

Title: EXTRACT From: WILLIAMS, ERIC
Ver: 09/20/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: FILTERS A SINGLE C FUNCTION DEFINITION FROM A C SOURCE TEXT FILE. THE SPECIFIED FUNCTION APPEARS ON STANDARD OUTPUT.
Program Type: PROGRAMMING AID

Title: PATCH From: WILLIAMS, ERIC
Ver: 12/10/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: CHANGES SELECTED BYTES OF ANY FILE.
Program Type: PROGRAMMING AID

Title: INTRUDER From: WILLIAMS, ERIC
Ver: 10/16/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: PRINTS A FORMATTED HEX AND ASCII "DUMP" OF THE SPECIFIED SECTOR OF THE NAMED INPUT FILE (INCLUDING DIRECTORY FILES).
Program Type: SYSTEM UTILITY

Title: EQUFIX From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: STRIPS COMMENTS, BLANK LINES, AND PSEUDO OPTS FROM EQUATE FILES
Program Type: TEXT FILE PROCESSING

Title: PAD From: KREIDER, CARL R.
Ver: 01/25/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Improves readability of disassemblies by inserting blank lines after control transfer statements etc.
Program Type: TEXT FILE PROCESSING

Title: STRIPNUM From: KALEITA, DAVID L.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: Improves readability of disassemblies by inserting blank lines after control transfer statements etc.
Program Type: TEXT FILE PROCESSING

Title: STRIPNUM From: KALEITA, DAVID L.
Ver: 1.02 Lang: BASIC09.6809 Fmt: SOURCE
Function: STRIPS A SPECIFIED NUMBER OF CHARACTERS FROM THE BEGINNING OF EACH LINE IN A TEXT FILE; A NEW FILE IS CREATED AS THE OUTPUT.
Program Type: TEXT FILE PROCESSING

Title: STRIPREM From: KALEITA, DAVID L.
Ver: 1.04 Lang: BASIC09.6809 Fmt: SOURCE
Function: STRIPS ALL "REM" STATEMENTS OUT OF THE SPECIFIED INPUT FILE (WHICH IS NOT MODIFIED); A NEW "PROCEDURE" IS CREATED AS OUTPUT.
Program Type: TEXT FILE PROCESSING

Title: STRIPZ From: KREIDER, CARL R.
Ver: 01/25/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Copies xxxxx labels from disassembly to separate file for creation of substitution file with editor.
Program Type: TEXT FILE PROCESSING

Volume #6, Adventure Game (source code)
(40 track, double-sided)

This is a disk for the hard-core C language programmer who just can't get enough source code. The entire game is here, re-written in Microware C, but it is so large that the executable object code would not fit on the disk. If you couldn't care less about the source code for this great game, but just want to PLAY it, you should get disk #7 instead.

Volume #7, Adventure Game (object code)
(40 track, single-sided)

Title: ADVENT From: SIEFER, MICHAEL J.
Ver: 09/21/84 Lang: C—MW.6809 Fmt: OBJECT
Function: ADVENTURE GAME
Program Type: MISC.

Volume #8, General Interest, Disk #1
(35 track, single-sided)

Title: JERRYBENCH From: POURNELL, JERRY / MORSE, G.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: 10 X 10 MATRIX MULTIPLY BENCHMARK
Program Type: DEMONSTRATION

Title: SIEVE From: MORSE, GREG
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: SELF-TIMING BENCHMARK
Program Type: DEMONSTRATION

Title: CHECKBOOK From: PUCKETT, DALE L.
Ver: 04/09/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Simple program to help user balance a checkbook.
Program Type: MISC.

Title: FINANCE From: PUCKETT, DALE L.
Ver: 04/09/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Menu driven program that makes a number of financial calculations.
Program Type: MISC.

Volume #9, C Programmer's Tool Kit
(35 track, single-sided)

Title: CB From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Converts poorly structured C programs to K&R style.
Program Type: FILE PROCESSING FILTER

Title: FINDFUNC From: KREIDER, CARL R.
Ver: 09/20/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT

Function: GENERATES A LIST OF FUNCTIONS FROM C SOURCE, INCLUDING THE FILE AND LINE
Program Type: PROGRAMMING AID

Title: LIB From: KREIDER, CARL R.
Ver: 09/20/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: SPLITS THE MW C LIBRARY BACK INTO MODULES FOR MODIFICATION OR ADDITION —
GENERATES A FILE OF THE MODULE NAMES
Program Type: PROGRAMMING AID

Title: XC From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CROSS REFERENCE GENERATOR FOR C PROGRAMS
Program Type: PROGRAMMING AID

Title: MAKDIR.A09 From: WILLIAMS, ERIC
Ver: Lang: ASM.6809 Fmt: SOURCE
Function: INTROL C SUBROUTINE TO PERFORM "MAKDIR" FUNCTION WITHOUT CALLING SHELL.
Program Type: SUBROUTINE

Title: PPC From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Titles, dates, paginates C listings.
Program Type: TEXT FILE OUTPUT ROUTINE

Volume #10, Math & Electronics, Disk #1
(35 track, single-sided)

Title: FAST—FOURIER From: MORSE, GREG
Ver: 04/01/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: PERFORMS THE COMPLEX FAST FOURIER TRANSFORM OF ARRAYS UP TO 2048 ENTRIES.
ALSO INVERSE TRANSFORM.
Program Type: MISC.

Title: LINEFIT From: MORSE, GREG
Ver: 01/01/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: FINDS LEAST SQUARE FIT LINES THRU A SET OF DATA POINTS x y AS WELL AS THEIR MEANS
STD DEV AND CORRELATION COEFF.
Program Type: MISC.

Title: NETWORK From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: ELECTRONIC CIRCUIT NETWORK DESIGN/ANALYSIS
Program Type: MISC.

Title: NORMAL From: DORNER, GEORGE C.
Ver: 02/05/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: NORMAL CALLS RND—SMPL REPEATEDLY TO DEMONSTRATE THIS RND FUNCTION WHICH
RETURNS RANDOM VARIATES FROM A NORMAL DISTRIBUTION
Program Type: MISC.

Title: RC From: DORNER, GEORGE C.
Ver: 02/05/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: GENERATES DATA ILLUSTRATING BEHAVIOR OF SIMPLE RESISTOR-CAPACITOR CIRCUIT.
Program Type: MISC.

Title: RESRATINC From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PRINTS ALL 1% RESISTOR COMBINATIONS THAT FIT THE SPECIFIED RESISTOR RATIO AND
ERROR (TOLERANCE) LIMITS.
Program Type: MISC.

Title: UNIVARIATE From: DORNER, GEORGE C.
Ver: 02/05/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: COMPUTES ALL STANDARD STATISTICS FOR A SET OF SINGLE VARIABLE OBSERVATIONS.
Program Type: MISC.

Title: AVERAGE—STDEV From: MORSE, GREG
Ver: 01/01/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: CALCULATES MEANS, STANDARD DEVIATIONS CROSS PRODUCTS AND SUMS OF SQUARES
FOR TWO ARRAYS OF NUMBERS.
Program Type: SUBROUTINE

Volume #11, Word Processing Utilities, Disk #2
(35 track, single-sided)

Title: WC From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: COUNTS WORDS CHARS AND LINES IN A TEXT FILE.
Program Type: FILE PROCESSING FILTER

Title: COL From: TYLER, WILLIAM R.
Ver: 1.0 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: Columnates standard input to standard output
Program Type: FILE PROCESSING FILTER

Title: FINDS From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Finds specified strings in a file.
Program Type: TEXT FILE PROCESSING

Title: UPLOW From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CONVERTS TEXT TO ALL UPPER OR ALL LOWER CASE
Program Type: TEXT FILE PROCESSING

Title: PF From: WAGGONER, ROLAND T.
Ver: 07/23/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Formatted print program. Accounts for line feed in long lines in Basic09 list files. Allows arbitrary header.
Program Type: TEXT FILE OUTPUT ROUTINE

Title: PRINT.C From: JONES, JAMES E.
Ver: 1 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: YET ANOTHER FILE PRINTING PROGRAM
Program Type: TEXT FILE OUTPUT ROUTINE

Volume #12, Programming Utilities, Disk #2
(35 track, single-sided)

Title: SHOREGS From: MORSE, GREG
Ver: 10/01/84 Lang: ASM.6809 Fmt: SOURCE
Function: SHOWS the 6809 REGISTERs on the Stderr path. used in debugging assembly language programs.
Program Type: PROGRAMMING AID

Title: SYSTEST From: LYALL, PETER W. JR.
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: Facilitates testing the effects of OS9 system calls from a "stable" environment.
Program Type: PROGRAMMING AID

Title: ASCIFY From: TYLER, WILLIAM R.
Ver: 1.0 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: Converts file into hex/ascii form
Program Type: TEXT FILE PROCESSING

Title: DEASCII From: TYLER, WILLIAM R.
Ver: 1.0 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: OPPOSITE FUNCTION OF ASCIFY. CONVERTS FILES FROM HEX/ASCII FORM TO ORIGINAL.
Program Type: TEXT FILE PROCESSING

Title: LISA From: LYALL, PETER W. JR.
Ver: 1.0 Lang: ASM.6809 Fmt: SOURCE

Function: Lists bunched up assembly language sources in a tabbed assembler format to standard output.
Program Type: TEXT FILE OUTPUT ROUTINE

Title: SHOWC From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: Lists file showing non printable characters
Program Type: TEXT FILE OUTPUT ROUTINE

Title: TCMP From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: TEXT FILE COMPARE, WITH RE-SYNCHRONIZATION, THAT SHOWS DIFFERENCES BETWEEN
FILES
Program Type: TEXT FILE OUTPUT ROUTINE

Volume #13, File Processing Utilities, Disk #2
(35 track, single-sided)

Title: GREP From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: The Unix pattern finding utility.
Program Type: FILE PROCESSING FILTER

Title: SPINT From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: GREP LIKE UTILITY TO MATCH TEXT PATTERNS AND PRINT LINES WITH (OR WITHOUT) THE
PATTERN.
Program Type: FILE PROCESSING FILTER

Title: UNIQ From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: The Unix uniq utility.
Program Type: FILE PROCESSING FILTER

Title: TR From: KREIDER, CARL R.
Ver: 07/01/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: The K&P tools translit utility.
Program Type: TEXT FILE PROCESSING

Volume #14, File Maintenance, Disk #1
(35 track, single-sided)

Title: ARC From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: ARCHIVING FILE STRUCTURES BY DATE
Program Type: FILE MAINTENANCE

Title: DELW From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: WILD CARD DELETE
Program Type: FILE MAINTENANCE

Title: DIRW From: KREIDER, CARL R.
Ver: 04/ /85 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: WILD CARD DIR PROGRAM
Program Type: FILE MAINTENANCE

Title: TREE From: KREIDER, CARL R.
Ver: 08/15/83 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: PRINTS TREE STRUCTURE OF DISK, OPTIONALLY REPORTING SPACE USED
Program Type: FILE MAINTENANCE

Volume #15, Communication, Disk #1
(35 track, single-sided)

Title: KILL13 From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: STRIPS ALL "13" (X-OFF) CHARACTERS FROM A FILE.
Program Type: BINARY FILE PROCESSING

Title: ACIA.MAPIN From: DIBBLE, PETER
Ver: 07/02/83 Lang: ASM.6809 Fmt: SOURCE
Function: FILTER TO CHANGE CONTROL STRINGS FROM A TERMINAL INTO CORRESPONDING ANSI
STRINGS.
Program Type: COMMUNICATION

Title: ACIA.MAPOUT From: DIBBLE, PETER
Ver: 06/24/83 Lang: ASM.6809 Fmt: SOURCE
Function: APPENDAGE FOR THE ACIA DRIVER; GETS CONTROL OF INIT, READ, AND WRITE AND
PASSES THEM THRU ACIA TO THE PHYSICAL DEVICE.
Program Type: COMMUNICATION

Title: DNLOAD From: DEGLER, ROGER L.
Ver: 11/24/83 Lang: ASM.6809 Fmt: SOURCE
Function: COPIES INPUT FROM SPECIFIED DEVICE TO STDOUT. ECHOES RECEIVED CHARACTERS
BACK TO HOST AS SIGNAL TO SEND MORE.
Program Type: COMMUNICATION

Title: MODEM From: DREXLER, KEN
Ver: 1.1 Lang: ASM.6809 Fmt: OBJECT
Function: COPIES CHARACTERS TO/FROM SPECIFIED DEVICE. THIS IS A REVISED VERSION OF THE
ORIGINAL PROGRAM BY D. MacLEAN.
Program Type: COMMUNICATION

Title: UPLOAD From: DEGLER, ROGER L.
Ver: 11/24/83 Lang: ASM.6809 Fmt: SOURCE
Function: COPIES STDIN TO SPECIFIED DEVICE. WAITS FOR CHARS TO BE ECHOED BACK.
Program Type: COMMUNICATION

Title: TUBE From: WILLIAMS, ERIC
Ver: 11/13/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: COPIES CHARACTERS TO/FROM DEVICE. HAS 1200/300 BAUD SPEED CHANGE CAPABILITY.
Program Type: COMMUNICATION

Title: INSERT From: KREIDER, CARL R.
Ver: 02/12/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Reads the file created by "fm" and inserts new users into the "users" file.
Program Type: MISC.

Title: NINSERT From: KREIDER, CARL R.
Ver: 02/12/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Generates a file (nusers) sorted by CIS number from the file "users."
Program Type: MISC.

Title: FM From: KREIDER, CARL R.
Ver: 01/25/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Creates a file of message originators when fed downloaded CIS messages — see insert & ninsert.
Program Type: TEXT FILE PROCESSING

Volume #16, Hardware Customizations, Disk #1
(35 track, single-sided)

Title: PRSET From: TYLER, WILLIAM R.
Ver: 1.2 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: Sets the programmable parameters of the GE (GENICOM) 3404 Line Printer
Program Type: MISC.

Title: PRSET—10X From: TYLER, WILLIAM R.
Ver: 1.0 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: Sets some of the programmable parameters of the Gemini 10x Line Printer
Program Type: MISC.

Title: CCGOTOXY From: LYALL, PETER W. JR.
Ver: 1.0 Lang: ASM.6809 Fmt: SOURCE
Function: GOTOXY module for NORMAL DYNASTAR and either O-PAK or WORDPAK. Completely remapped COLOR COMPUTER keyboard.
Program Type: SUBROUTINE

Title: ANSI.GOTOXY From: DIBBLE, PETER
Ver: 05/11/83 Lang: ASM.6809 Fmt: SOURCE
Function: VIDEO TERMINAL DATA MODULE FOR ANSI-STANDARD TERM; FOR USE WITH "DYNASTAR" SCREEN EDITOR.
Program Type: SYSTEM SOFTWARE

Title: CLOCK From: WILLIAMS, ERIC
Ver: 09/07/82 Lang: ASM.6809 Fmt: SOURCE
Function: CLOCK DRIVER MODULE FOR COMPUTERWARE 6800 CL4 CALCLOCK/TIMER BOARD
Program Type: SYSTEM SOFTWARE

Title: PI From: FISCHER, STEPHEN
Ver: Lang: ASM.6809 Fmt: SOURCE
Function: PARALLEL PRINTER DRIVER FOR TRS-80 COLOR COMPUTER
Program Type: SYSTEM SOFTWARE

Title: SERIAL From: PUCKETT, DALE L.
Ver: 04/09/84 Lang: ASM.6809 Fmt: SOURCE
Function: Interrupt driven device driver to replace the CoCo RS-232 driver. Allows operation up to 19.2 Kbaud.
Program Type: SYSTEM SOFTWARE

Volume #17, Basic09 Programmer's Tool Kit
(35 track, single-sided)

Title: INKEY From: MICROWARE SYSTEMS (R. DOGGETT)
Ver: 2 Lang: ASM.6809 Fmt: SOURCE
Function: Determines if a key has been typed on the given path, and if so, returns the next input character as the string variable.
Program Type: SUBROUTINE

Title: INKEY—HAL From: SNYDER, HAL, M.D.
Ver: Lang: ASM.6809 Fmt: SOURCE
Function: READ INDIVIDUAL KEY DEPRESSIONS
Program Type: SUBROUTINE

Title: LOWUP From: KALEITA, DAVID L.
Ver: 1.03 Lang: ASM.6809 Fmt: SOURCE
Function: A SUBROUTINE FOR BASIC09 FOR CONVERTING UP TO 252 STRING VARIABLES TO ALL UPPER CASE ASCII CHARACTERS.
Program Type: SUBROUTINE

Title: MODLINKB From: MICROWARE SYSTEMS
Ver: 05/06/83 Lang: ASM.6809 Fmt: SOURCE
Function: Used to link to a data module so that data may be passed thru the data module to/from all other processes that have linked to it.
Program Type: SUBROUTINE

Title: SYSCALL From: MICROWARE SYSTEMS (R. DOGGETT)
Ver: /83 Lang: ASM.6809 Fmt: SOURCE
Function: UNIVERSAL SYSTEM CALL SUBROUTINE- MICROWARE VERSION.
Program Type: SUBROUTINE

Title: SYSCALL—HAL From: SNYDER, HAL, M.D.
Ver: 08/14/83 Lang: ASM.6809 Fmt: SOURCE
Function: EXECUTE AN OS-9 SYSTEM CALL FROM BASIC09. THIS IS A SMALLER, BUT UN-ROMMABLE VERSION OF THE MICROWARE ROUTINE "SYSCALL."
Program Type: SUBROUTINE

Title: BLANKO From: CAPOUCH, BRIAN
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: BLANKS A COMPLEX DATA STRUCTURE TO NULLS
Program Type: SUBROUTINE

Title: CHAR—TO—INT—TO—CHAR From: CAPOUCH, BRIAN
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: TWO PROCEDURES TO CONVERT BASIC09 STRINGS TO INTEGERS AND VICE-VERSA.
Program Type: SUBROUTINE

Title: CHECK—FILE From: CAPOUCH, BRIAN
Ver: 2.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: DETERMINES FILE STATUS OF SPECIFIED INPUT FILE.
Program Type: SUBROUTINE

Title: DATE—CVT From: CAPOUCH, BRIAN
Ver: 2.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: CONVERTS DATE BETWEEN TWO FORMATS: MM/DD/YY TO/ FROM YYDDD (WHERE "DDD" IS THE JULIAN DAY OF YEAR FORM 1-365).
Program Type: SUBROUTINE

Title: DOLLAR—PRINT From: CAPOUCH, BRIAN
Ver: 2.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: CONVERTS "REAL" AMOUNT (=999.99) TO "STRING" "DOLLAR" FORMAT.
Program Type: SUBROUTINE

Title: ERREPORT From: CAPOUCH, BRIAN
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PRINTS MESSAGE ON LINE 2 OF TERMINAL, WAITS FOR CNTL-F ACKNOWLEDGEMENT.
Program Type: SUBROUTINE

Title: GETNUMB From: MORSE, GREG
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: MORE POWERFUL VERSION OF THE BASIC09 "VAL" FUNCTION.
Program Type: SUBROUTINE

Title: ISAM From: JONES, JAMES E.
Ver: 2A Lang: BASIC09.6809 Fmt: SOURCE
Function: PRIMITIVE ISAM PACKAGE
Program Type: SUBROUTINE

Title: POPEN From: MICROWARE SYSTEMS (R. DOGGETT)
Ver: /83 Lang: BASIC09.6809 Fmt: SOURCE
Function: Creates a pipe by DUPEing one of the std paths & using the path as the pipe that will go to or from the FORKed pipeline process.
Program Type: SUBROUTINE

Title: PWD—NAME From: CAPOUCH, BRIAN
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: DOES A "PWD" AND RETURNS THE RESULT (OUTPUT) AS A BASIC09-READABLE STRING VARIABLE.
Program Type: SUBROUTINE

Title: TERM—CTL From: CAPOUCH, BRIAN
Ver: 2.1 Lang: BASIC09.6809 Fmt: SOURCE
Function: PERFORMS SPECIAL TERMINAL CONTROL SEQUENCES.
Program Type: SUBROUTINE

Volume #18, System Utilities, Disk #1
(35 track, single-sided)

Title: NEW—HEX—DUMP From: PUCKETT, DALE L.
Ver: 04/09/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Filter that outputs a hex dump of standard input path. Works well in a pipeline.
Program Type: PROGRAMMING AID

Title: DDISPLAY From: MASON-SHERWOOD, TONY
Ver: 04/19/84 Lang: ASM.6809 Fmt: SOURCE
Function: SAME AS "DISPLAY" UTILITY, EXCEPT CHARACTERS TO BE DISPLAYED ARE SPECIFIED IN DECIMAL, RATHER THAN HEX.
Program Type: SYSTEM UTILITY

Title: ERROR From: HOCK, DARRYL A.
Ver: 06/13/84 Lang: ASM.6809 Fmt: SOURCE
Function: PRINTS AN ENGLISH ERROR MESSAGE THAT CORRESPONDS TO THE ERROR CODE (NUMBER) PASSED TO IT. COMPLETELY SELF-CONTAINED.
Program Type: SYSTEM UTILITY

Title: MRENAME From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: ASM.6809 Fmt: SOURCE
Function: CHANGES NAME OF MODULE IN MEMORY AND CORRECTS CRC
Program Type: SYSTEM UTILITY

Title: PURGE.A From: LYALL, PETER W. JR.
Ver: 1.0 Lang: ASM.6809 Fmt: SOURCE
Function: PURGE will unlink a module until it's gone. Great for those left behind by BASIC09 during debugging.
Program Type: SYSTEM UTILITY

Title: ILEAV From: KREIDER, CARL R.
Ver: 08/14/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: PRINTS DISK INTERLEAVE TABLES
Program Type: SYSTEM UTILITY

Title: RIDSECT From: MILLENAAR, ROB P.
Ver: 10/01/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: READ DISK ID SECTOR AND DECODE AND DISPLAY THE INFORMATION.
Program Type: SYSTEM UTILITY

Title: ALIAS From: WILLIAMS, ERIC
Ver: 1.0 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CREATES AN ALTERNATE NAME FOR AN OS-9 COMMAND.
Program Type: SYSTEM UTILITY

Title: EMD From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: EXTENDED MEMORY DUMP FOR LII
Program Type: SYSTEM UTILITY

Title: TODAY From: MILLENAAR, ROB P.
Ver: 1 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: LIST DATE AND TIME IN A LEGIBLE FORMAT. CAN BE USED AS A BASE FOR OTHER DATE RELATED PROGRAMS.
Program Type: SYSTEM UTILITY

Volume #19, Languages 1: XLisp (source)
(40 track, double-sided)

Volume #20, XLisp (object)
(35 track, single-sided)

Title: XLISP From: JONES, JAMES E.
Ver: 1.2 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: LISP-LIKE LANGUAGE WITH OBJECT-ORIENTED FUNCTIONS
Program Type: MISC.

Volume #21, File Maintenance, Disk #2
(35 track, single-sided)

Title: APPEND From: MORSE, GREG
Ver: 10/01/84 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: APPENDs one or more infiles (which may include stdin) to output file (which may be stdout).
Program Type: FILE MAINTENANCE

Title: DIR From: MASON-SHERWOOD, TONY
Ver: 04/19/84 Lang: ASM.6809 Fmt: SOURCE
Function: "DIR" COMMAND FOR 64-COLUMN FORMAT SCREENS
Program Type: FILE MAINTENANCE

Title: DL From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: DELETE UTILITY WITH OPTION TO READ LIST OF FILE NAMES FROM STDIN INSTEAD OF AS PARAMETERS.
Program Type: FILE MAINTENANCE

Title: DIRLISTER From: KAPALDO, PAUL J.
Ver: 05/19/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: TO PRINT-OUT A HIERARCHICAL DIRECTORY LISTING.
Program Type: FILE MAINTENANCE

Title: FCOPY From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 08/14/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: READS A FILE OF FILES AND GENERATES A SHELL SCRIPT TO COPY THOSE FILES
Program Type: FILE MAINTENANCE

Title: POST From: HOCK, DARRYL A.
Ver: 04/20/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: UTILITY TO MERGE "—RMS" DATA FILES — USEFUL FOR POSTING SMALLER FILES INTO THE MASTER DATA BASE.
Program Type: FILE MAINTENANCE

Title: D From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: LISTS CURRENT DIRECTORY ONE ENTRY PER LINE WITH WILD CARD MATCHING.
Program Type: FILE MAINTENANCE

Title: OWNER From: KREIDER, CARL R.
Ver: 08/15/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CHANGES OWNERS OF FILES AND DIRECTORIES
Program Type: FILE MAINTENANCE

Title: DEL.P From: TYLER, WILLIAM R.
Ver: 1.0 Lang: PASCAL—OMG.6809 Fmt: SOURCE & OBJECT
Function: Identical to MW's del except it returns its own error messages (ideal for level II) and does not stop deleting files on errors
Program Type: SYSTEM UTILITY

Volume #22, Programming Utilities, Disk #3
(35 track, single-sided)

Title: FLEXBIN.A From: HOCK, DARRYL A.
Ver: 08/08/84 Lang: ASM.6809 Fmt: SOURCE
Function: EXPANDS FLEX FORMAT BINARY FILES INTO FULL IMAGE (FULL SIZE, POSITION-DEPENDENT) BINARY FILES, READY TO "ROM."
Program Type: FILE PROCESSING FILTER

Title: FLEXEX From: HOCK, DARRYL A.
Ver: 08/08/84 Lang: ASM.6809 Fmt: SOURCE
Function: CONVERTS FLEX FORMAT BINARY FILES TO MOTOROLA S-RECORD FORMAT.
Program Type: FILE PROCESSING FILTER

Title: GO From: TYLER, WILLIAM R.
Ver: 1.0 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: 1K Job Control Language which uses either current working directory or a macro library for macro input
Program Type: PROGRAMMING AID

Title: FORMS2.GNX From: MORSE, GREG
Ver: 1.0 Lang: COBOL—MW.6809 Fmt: SOURCE

Function: 100% replacement for Micro Focus FORMS2 package UPDATE template. Includes the files FORMS2.GN1 and FORMS2.GN2.
Program Type: PROGRAMMING AID

Title: BIN2BCD From: MORSE, GREG.
Ver: 04/10/85 Lang: ASM.6809 Fmt: SOURCE
Function: CONVERT BINARY TO BCD AND BCD TO CHAR
Program Type: SUBROUTINE

Volume #23, File Processing Utilities, Disk #3
(35 track, single-sided)

Title: COMPRESS From: JONES, JAMES E.
Ver: 08/19/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: DATA COMPRESSION FILTER
Program Type: FILE PROCESSING FILTER

Title: CRYPT.C From: JONES, JAMES E.
Ver: 1 Lang: C—MW.6809 Fmt: OBJECT
Function: FOUR-ROTOR ENIGMA MACHINE ENCRYPTION/DECRYPTION FILTER
Program Type: FILE PROCESSING FILTER

Title: FIELD From: MILLENAAR, ROB P.
Ver: 1 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: SELECT FIELDS OR COLUMNS FROM STANDARD INPUT AND SEND TO STANDARD OUTPUT.
Program Type: FILE PROCESSING FILTER

Title: STRIP.C From: McCOPPIN, RAY
Ver: 11/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: OPTIONALLY STRIPS ANY COMBINATION OF CONTROL CHARACTERS, CARRIAGE RETURNS, AND/OR LINE FEEDS FROM A TEXT FILE.
Program Type: FILE PROCESSING FILTER

Title: CRYPT.A From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: ENCODES AND DECODES FILES USING A PERSONAL KEYWORD
Program Type: FILE PROCESSING FILTER

Volume #24, General Interest, Disk #2
(35 track, single-sided)

Title: MORTGAGE From: MORSE, GREG
Ver: 08/01/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: THE BEST MORTGAGE PROGRAM EVER.
Program Type: MISC.

Title: MUSIC From: KALEITA, DAVID L.
Ver: 03/30/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: AUDIO RECORDING CATALOGING SYSTEM
Program Type: MISC.

Title: CHKNG From: WILLIAMS, ERIC
Ver: 10/15/83 Lang: C—INTROL.6809 Fmt: SOURCE & OBJECT
Function: ELECTRONIC CHECKBOOK — ALLOWS USERS TO ENTER & EDIT CHECK INFO. MARK CLEARED TRANSACTIONS, & OBTAIN CLEARED & ACTUAL BALANCES
Program Type: MISC.

Volume #25, Word Processing Utilities, Disk #2
(35 track, single-sided)

Title: CHECK From: SCUDIERE, DR. MATTHEW
Ver: 07/02/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: COMPARES BIN/ASCII FILES & PRINTS DIFFERENCES. LOOKS FOR MATCHES, INSERTIONS, DELETIONS. (FAIRLY SMART & A LITTLE SLOW)
Program Type: FILE MAINTENANCE

Title: ADJ From: HOCK, DARRYL A.
Ver: 03/27/83 Lang: ASM.6809 Fmt: SOURCE
Function: LIMITS MAXIMUM LINE LENGTH IN A TEXT FILE WITHOUT SPLITTING WORDS. CAN ALSO BE USED TO PARSE A FILE TO ONE WORD PER LINE.
Program Type: FILE PROCESSING FILTER

Title: SPACES From: HOCK, DARRYL A.
Ver: 03/26/84 Lang: ASM.6809 Fmt: SOURCE
Function: STRIPS ALL TRAILING SPACES FROM EACH LINE IN A TEXT FILE. CAN ALSO REDUCE ALL STRINGS OF SPACES IN A FILE TO A SPECIFIED LENGTH.
Program Type: FILE PROCESSING FILTER

Title: STRIP.A From: HOCK, DARRYL A. & KALEITA, D.
Ver: 02/07/84 Lang: ASM.6809 Fmt: SOURCE
Function: USED TO OPTIONALLY STRIP, ADD, OR PROCESS ANY COMBINATION OF THE FOLLOWING: CRs, LFs, BACKSPACES, PARITY, CONTROL CHARACTERS.
Program Type: FILE PROCESSING FILTER

Title: BUILD From: COVICI, JOHN
Ver: 09/03/83 Lang: ASM.6809 Fmt: SOURCE
Function: BUFFERED VERSION OF BUILD WHICH WRITES TO THE DISK LESS OFTEN AND TERMINATES AT EOF
Program Type: TEXT FILE PROCESSING

Title: CAT.09 From: HARRIS, TIMOTHY ALLEN
Ver: 08/13/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CONCATENATES FILES TO STANDARD OUTPUT
Program Type: TEXT FILE PROCESSING

Title: ONELINE From: GROVES, ORAL E.
Ver: 11/27/84 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: DE-FORMAT AN ARTICLE FOR SUBMISSION TO PUBLISHER WITH AUTOMATIC TEXT FORMATTING PROGRAMS
Program Type: TEXT FILE PROCESSING

Volume #26, C Language Math Library, Disk #1
(35 track, single-sided)

Title: TRANS—LIB.A From: POOLE, DAN A.
Ver: 03/03/85 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: REPLACEMENT FOR CLIB.L THAT INCLUDES TRANSCENDENTAL FUNCTIONS.
Program Type: SUBROUTINE

Volume #29, File Maintenance, Disk #3
(35 track, single-sided)

Title: DEL.A From: TYLER, W. R. & RASPUTIN, O.
Ver: 01/25/85 Lang: ASM.6809 Fmt: SOURCE
Function: SIMILAR TO MICROWARE "DEL", EXCEPT DOES NOT ABORT ON ERROR UNTIL ALL FILENAMES PASSED ARE PROCESSED.
Program Type: FILE MAINTENANCE

Title: ERASE From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: ASM.6809 Fmt: SOURCE
Function: ERASES FILE FROM RBF MEDIA TO PROTECT SENSITIVE INFORMATION. THIS MAKES IT TOTALLY UNRECOVERABLE.
Program Type: FILE MAINTENANCE

Title: HDIR.A From: HEALTON, WILLIAM L.
Ver: 01/05/85 Lang: ASM.6809 Fmt: SOURCE
Function: A MULTI-LEVEL, HIERARCHICAL DIRECTORY
Program Type: FILE MAINTENANCE

Title: PURGE.B From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE

Function: PERMANENTLY ERASES UNUSED PORTIONS OF RBF MEDIA TO PROTECT SENSITIVE INFO
Program Type: FILE MAINTENANCE

Title: SCAN From: DURHAM, PETER E.
Ver: 06/12/83 Lang: BASIC09.6809 Fmt: SOURCE
Function: SCAN attempts to read each sector of a file/device, any errors encountered on the way are displayed.
Program Type: FILE MAINTENANCE

Title: SORTDIR From: DURHAM, PETER E.
Ver: 06/12/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Sorts directory entries in increasing ASCII order.
Program Type: FILE MAINTENANCE

Title: CHOWN.09 From: BUCK, DAVID K.
Ver: 02/21/85 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CHANGES THE OWNERSHIP OF A NON-DIRECTORY FILE
Program Type: FILE MAINTENANCE

Title: FCAT From: BALL, WILLIAM H.
Ver: 1.0 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CONCATENATE FILES TO STD OUT, EITHER FROM A LIST ON THE COMMAND LINE OR FROM A LIST ON STD IN
Program Type: FILE MAINTENANCE

Title: RM From: BALL, WILLIAM H.
Ver: 1.0 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: DELETES FILES, AS SPECIFIED ON THE COMMAND LINE OF ON STD IN.
Program Type: FILE MAINTENANCE

Title: AP From: BUCK, DAVID K. (By J. Haley)
Ver: 02/21/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: AN APPEND UTILITY TO APPEND TO A FILE OR TO APPEND SEVERAL FILES INTO ONE.
Program Type: FILE MAINTENANCE

Volume #30, File Processing Utilities, Disk #4
(35 track, single-sided)

Title: COM From: TYLER, WILLIAM R.
Ver: 05/11/85 Lang: ASM.6809 Fmt: SOURCE
Function: FILTER WHICH CLEARS THE MOST SIGNIFICANT BIT OF EVERY BYTE IN A TEXT FILE
Program Type: FILE PROCESSING FILTER

Title: PAGE From: DREXLER, KEN
Ver: 05/16/85 Lang: ASM.6809 Fmt: SOURCE
Function: BREAKS TEXT FILES INTO 58-LINE PAGES, SEPARATED BY FORM FEED CHARACTERS.
Program Type: FILE PROCESSING FILTER

Title: UPPER From: SMITH, MARK W.
Ver: 04/07/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: EQUIV TO THE UNIX COUNTERPART . . . CONVERTS A FILE TO UPPER-CASE ASCII.
Program Type: FILE PROCESSING FILTER

Title: ASC From: SMITH, MARK W.
Ver: 04/07/85 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: CONVERTS FILE TO UPPER OR LOWER CASE ASCII.
Program Type: FILE PROCESSING FILTER

Title: WCL From: BUCK, DAVID K.
Ver: 02/21/85 Lang: C—MW.6809 Fmt: SOURCE & OBJECT
Function: COUNTS THE CHARACTERS, WORDS, AND LINES IN A FILE USING 32 BIT NUMBERS
Program Type: FILE PROCESSING FILTER

Title: STRIPARITY From: DREXLER, KEN
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: CLEARS THE PARITY BIT ON ALL CHARACTERS IN A FILE. (See "STRIP.A" if you want to do this AND remove all control characters).
Program Type: TEXT FILE PROCESSING

Title: UPPERCASE From: SMITH, MARK W.
Ver: 05/09/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: Converts a text file to upper-case.
Program Type: TEXT FILE PROCESSING

Title: ROF From: BLOCH, RALPH E.
Ver: 05/12/85 Lang: ASM.6809 Fmt: OBJECT
Function: TEXT FORMATTER; READS STANDARD TEXT FILE WITH COMMAND CODES, GENERATES FORMATTED, PRINTABLE OUTPUT
Program Type: TEXT FILE OUTPUT ROUTINE

Title: PAGPRT From: MORSE, GREG
Ver: 05/21/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: PAGINATES A FILE—LIST OBEYING SETTINGS FOR TOP BOTTOM& LEFT MARGINS PAGE LENGTH SPACING AND STARTING POINT IN FILE.
Program Type: TEXT FILE OUTPUT ROUTINE

Title: NROFF From: NAPOLITANO, TOM
Ver: 1 Lang: C—DYNA.6809 Fmt: SOURCE
Function: TEXT PROCESSOR BASED ON "SOFTWARE TOOLS"
Program Type: TEXT FILE OUTPUT ROUTINE

Volume #31, Hardware Customizations, Disk #2
(35 track, single-sided)

Title: COCO—CONFIGURATIONS From: TYLER, WILLIAM R.
Ver: 08/15/84 Lang: MISC.6809 Fmt: TEXT
Function: Configuration Information needed to run RMS Dynacalc and Dynastar (standard versions) on Color Computer with PBJ Wordpak or FHL
Program Type: SUBROUTINE

Title: KIMTRON From: KALEITA, DAVID L.
Ver: 08/14/83 Lang: MISC.6809 Fmt: SOURCE & TEXT
Function: SET OF FILES TO AID IN THE USE OF THE KIMTRON ABM85 TERMINAL WITH OS-9. STARTUP FILE WILL AUTO-PROGRAM FUNCT KEYS; DS GOTOXY INC.
Program Type: SYSTEM SOFTWARE

Volume #32, Hardware Customizations, Disk #3
(35 track, single-sided)

Title: TVI970—CONFIGURATIONS From: TYLER, WILLIAM R.
Ver: 08/15/84 Lang: MISC.6809 Fmt: TEXT
Function: Configuration and Programming programs for Televideo 970 for running Dynastar and Dynacalc
Program Type: SUBROUTINE

Title: NEWID From: SCHIRA, JOHN C.
Ver: 08/25/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: Newid displays and allows change to the disk identification parameters on lsn-0. It is menu-driven and can access drives 0-3.
Program Type: SYSTEM UTILITY

Volume #33, System Utilities, Disk #2
(35 track, single-sided)

Title: MAPMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: ASM.6809 Fmt: SOURCE
Function: MAPS LEVEL 2 EXTENDED MEMORY TO BASIC09 SPACE.
Program Type: SUBROUTINE

Title: CHVOLNAM From: MILLENAAR, ROB P.
Ver: 10/01/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: CHANGE THE NAME OF A VOLUME (DISK).
Program Type: SYSTEM UTILITY

Title: DISKLOCK From: SCHIRA, JOHN C.
Ver: 09/15/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: MAKES AN OS-9 DISK INACCESSABLE TO NORMAL SYSTEM COMMANDS.
Program Type: SYSTEM UTILITY

Title: DUMPMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: LEVEL II MEMORY DUMP BY FULL EXTENDED ADDRESS REPRESENTATION.
Program Type: SYSTEM UTILITY

Title: LOADMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: LEVEL II MEMORY LOAD WITH FULL EXTENDED ADDRESS REPRESENTATION.
Program Type: SYSTEM UTILITY

Title: MODMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: LEVEL II MEMORY MODIFY WITH FULL EXTENDED ADDRESS REPRESENTATION.
Program Type: SYSTEM UTILITY

Title: SAVEMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: SAVE PORTION OF LEVEL 2 (FULL EXTENDED ADDRESS) RAM.
Program Type: SYSTEM UTILITY

Title: SETMEM From: SCUDIERE, DR. MATTHEW
Ver: 02/07/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: WIPES OUT MEMORY. USEFUL FOR DELETING SENSITIVE INFO FROM BATTERY RAM.
Program Type: SYSTEM UTILITY

Title: DATES From: MILLENAAR, ROB P.
Ver: 1 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: KEEPS TRACK OF DATES APPOINTMENTS BIRTHDAYS ETC. WARNS IF THEY ARE COMING UP SOON.
Program Type: SYSTEM UTILITY

Volume #34, Hardware Customizations, Disk #4
(35 track, single-sided)

Title: BASUTIL From: KREIDER, CARL R.
Ver: 09/20/84 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: USED FROM BASIC TO SET A USER ID OR RETURN A TERMINAL NAME
Program Type: SUBROUTINE

Title: TERM—UTILS From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 08/15/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: UTILITIES FOR SCREEN FORMATTING AND DATA ENTRY
Program Type: SUBROUTINE

Title: CHANGETERM From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 08/15/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: DYNAMICALLY MODIFY YOUR TERMINAL CONFIGURATION
Program Type: SYSTEM UTILITY

Title: SETERM From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 08/15/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: CONFIGURES THE TERMINAL FROM CONFIGURATION FILES
Program Type: SYSTEM UTILITY

Title: SETPARAM From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 08/15/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: MODIFY THE TERMINAL CONFIGURATION FILES
Program Type: SYSTEM UTILITY

Volume #35, System Utilities, Disk #3
(35 track, single-sided)

Title: DISKID From: LYALL, PETER W. JR.
Ver: 1.1 Lang: BASIC09.6809 Fmt: SOURCE
Function: Will allow the user to rewrite the disk name and date on LSN0 after the backup command has overwritten it.
Program Type: FILE MAINTENANCE

Title: MAKETOPICS From: LYALL, PETER W. JR.
Ver: 1.0 Lang: MISC.6809 Fmt: TEXT
Function: Will build a list (file) of all HELP files available with header and footer and date stamp.
Program Type: MISC.

Title: DISASM.A From: MEUNDERT, JOE
Ver: 09/14/84 Lang: ASM.6809 Fmt: SOURCE
Function: OS-9/6809 DISASSEMBLER. ADAPTED FROM PROGRAM IN BYTE MAGAZINE, FEB 1982.
INCLUDES OS-9 SYSTEM CALLS.
Program Type: PROGRAMMING AID

Title: CHANGEPASSWORD From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 09/16/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: ALLOWS USERS TO CHANGE THEIR PASSWORD
Program Type: SYSTEM UTILITY

Title: LISTPASSWORDS From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 09/16/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: PROVIDES THE SUPERUSER WITH A LIST OF THE USERS AND THEIR PASSWORDS
Program Type: SYSTEM UTILITY

Title: LISTUSERS From: CRAWSHAW, MIKE (& Kreider, C.)
Ver: 09/16/84 Lang: BASIC09.6809 Fmt: SOURCE
Function: ALLOWS THE USER TO GET A LIST OF THE USERS OF THE SYSTEM
Program Type: SYSTEM UTILITY

Volume #36, General Interest, Disk #3
(35 track, single-sided)

Title: AMORT From: CONLEY, DENNIS L.
Ver: 06/23/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: AMORT WILL PRINT TO YOUR PRINTER A COMPLETE AMORTIZED SCHEDULE OF A MONTHLY PAYMENT TYPE LOAN AND GIVE YEARLY TOTALS
Program Type: MISC.

Title: HANGMAN From: DREXLER, KEN and GROVAC, TIM
Ver: 02/03/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: REVISED VERSION OF TIM GROVAC'S HANGMAN GAME. DOWNLOADED FROM THE OS-9 FORUM ON COMPUSERVE.
Program Type: MISC.

Title: KALAH From: KNUDSEN, MICHAEL J.
Ver: 02/21/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: PLAYS TWO VERSIONS OF THE INTERACTIVE STRATEGY BOARD GAME.
Program Type: MISC.

Title: EPS From: NAPOLITANO, TOM
Ver: 1 Lang: C—DYNA.6809 Fmt: SOURCE
Function: ALLOWS ONE TO SET UP AN EPSON PRINTER USING ENGLISH COMMANDS
Program Type: SYSTEM UTILITY

Title: OKI From: NAPOLITANO, TOM
Ver: 1 Lang: C—DYNA.6809 Fmt: SOURCE
Function: ALLOWS ONE TO SETUP OKIDATA 82/92 PRINTER USING ENGLISH LANGUAGE COMMANDS
Program Type: SYSTEM UTILITY

Volume #37, Programming Utilities, Disk #4
(35 track, single-sided)

Title: KERMIT From: SEATON, WM. GLENN
Ver: 1.2 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: FILE TRANSFER PROGRAM WITH ERROR CHECKING; ALSO AVAIL FOR IBM-PC/XT;HONEYWELL:HP-40 PROCESSORS.
Program Type: COMMUNICATION

Volume #38, Programming Utilities, Disk #4
(35 track, single-sided)

Title: SIFLEX From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: CONVERTS MOTOROLA SI FORMAT TO FLEX BINARY FORMAT
Program Type: PROGRAMMING AID

Title: SIINTEL From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: CONVERTS MOTOROLA SI FORMAT TO INTEL FORMAT
Program Type: PROGRAMMING AID

Title: SILOAD From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: CONVERTS MOTOROLA SI FORMAT TO OS9 BINARY FORMAT
Program Type: PROGRAMMING AID

Title: SIUNFLEX From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: CONVERTS FLEX BINARY FORMAT TO MOTOROLA SI FORMAT
Program Type: PROGRAMMING AID

Title: SIUNLOAD From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: CONVERTS OS-9 BINARY FORMAT TO MOTOROLA SI FORMAT
Program Type: PROGRAMMING AID

Title: SIXREF From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: PRINTS SORTED X-REFERENCE FROM A MOTOROLA SI FORMAT FILE
Program Type: PROGRAMMING AID

Title: REPLACE From: PASS, EDGAR M.
Ver: 02/09/85 Lang: C—MW6809 Fmt: SOURCE & OBJECT
Function: REPLACES STRINGS IN TEXT FILES
Program Type: TEXT FILE PROCESSING

Volume #39, Communication, Disk #3 (FREWARE)
(40 track, double-sided)

Title: BREAK From: MORSE, GREG
Ver: 04/10/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: SENDS A BREAK ON A 6850 ACIA PORT BY DIRECTLY ACCESSING THE CHIP CSR. HAS SOME TUTORIAL VALUE FOR LEVEL 2 USERS.
Program Type: COMMUNICATION

Title: XCOM9 From: MORSE, GREG
Ver: 04/10/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: MODEM PGM WITH XMODEM SUPPORT, NOW XMODEM CAPTURE AND UPLOAD MODES. EXPANSIBLE CAPTURE BUFFER AND MUCH MORE.
Program Type: COMMUNICATION

Volume #40, System Utilities, Disk #4
(35 track, single-sided)

Title: MAKE From: CASLER, DAVE R.
Ver: 1.1 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: MAKE A FILE BASED ON DEPENDENCY FILES
Program Type: SYSTEM UTILITY

Title: SETIME.NEW From: GROVES, ORAL E.
Ver: 1 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: USER FRIENDLY VERSION OF OS9 SETIME PROGRAM
Program Type: SYSTEM UTILITY

Title: HELP.C From: SEATON, WM. GLENN
Ver: 05/29/84 Lang: C_MW6809 Fmt: SOURCE
Function: UPGRADE OF ASM VERSION: LIST HELP FILES ON THE HELP DIRECTORY.
Program Type: SYSTEM UTILITY

Title: SST From: SEATON, WM. GLENN
Ver: 2.00 Lang: C_MW6809 Fmt: SOURCE
Function: SHOWS SYSTEM BLOCK SIZE; TOTAL SYSTEM RAM; BLOCK ALLOCATION MAP FOR SYSTEM STATE & SYSTEM STATE FREE MEMORY.
Program Type: SYSTEM UTILITY

Volume #42, Color Computer Graphics, Disk #1
(35 track, single-sided)

Title: GFXDUMP2 From: DURHAM, PETER E.
Ver: 06/12/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Dumps the CoCo graphics display to a Line Printer VII or compatible.
Program Type: MISC.

Title: THREE_D_GRAPHICS From: McLEAN, BRUCE
Ver: 05/25/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: This program generates 3-dimensional graphics using the CoCo hires screen. It also has routines for disk and printer.
Program Type: MISC.

Title: RATMAZE From: NAPOLITANO, TOM
Ver: 1 Lang: C_DYNA.6809 Fmt: SOURCE
Function: USES THE COCO GRAPHICS TO SIMULATE A RATS-EYE VIEW OF A MAZE
Program Type: MISC.

The remainder of this listing is comprised of software which has not yet been assigned to a UG Library volume, but which DOES appear in the seven-disk Master Library set. Each of these pieces will eventually be assigned to an individual Library volume as new ones are completed:

Title: DEDT From: HOCK, DARRYL A.
Ver: 11/11/85 Lang: BASIC09.68000 Fmt: SOURCE
Function: BINARY EDITOR FOR DISK FILES. EDITS FILES DIRECTLY ON THE DISK.
Program Type: BINARY FILE PROCESSING

Title: DISKEDIT From: DREXLER, KEN
Ver: 11/26/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: REVISED VERSION OF DISKEDIT.809. IT ALLOWS THE EXAMINATION AND MODIFICATION OF DISK SECTORS. (See also DEDT)
Program Type: BINARY FILE PROCESSING

Title: COMM From: McLEAN, BRUCE
Ver: 05/25/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: This is a smart terminal program that saves the input text in a buffer and dumps it to a file later.
Program Type: COMMUNICATION

Title: COMM_BAS From: McLEAN, BRUCE
Ver: 05/25/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: A smart terminal program that also allows you to send files.
Program Type: COMMUNICATION

Title: SETPARAM.COCO From GANN, GARY E.
Ver: 01/00/80 Lang: BASIC09.6809 Fmt: SOURCE
Function: EASY CHANGE OF DELUXE RS232 PARAMETERS
Program Type: COMMUNICATION

Title: SINE From SMITH, MARK W.
Ver: 05/08/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Sine curve plot for the TANDY FP-215 Plotter
Program Type: DEMONSTRATION

Title: CAL From MEAHAN, WILLIAM W.
Ver: 07/30/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Prints a calendar for any arbitrary month/year since 1/1/4713BC
Program Type: DEMONSTRATION

Title: GRAPH1 From LYALL, PETER WJR.
Ver: 1.0 Lang: BASIC09.6809 Fmt: SOURCE
Function: Displays graphics available using COLOR COMPUTER with PBJ 80 column WORDPAK.
Program Type: DEMONSTRATION

Title: SHAPE From DURHAM, PETER E.
Ver: 06/12/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Manipulates three-dimensional shapes and displays them on the CoCo's graphics screen.
Program Type: DEMONSTRATION

Title: HCOVER From JOHNSON, KEVIN J.
Ver: 07/09/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: CREATES A DISK COVER (JACKET) IN YGS 2 POCKET STYLE, WITH HIERARCHAL DISK INFO AND FILE POSITION RIGHT ON HAND.
Program Type: FILE MAINTENANCE

Title: ULDIR From CLARK, DAVE
Ver: 01/01/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: UPPERCASE ALL DIRECTORY NAMES AND LOWERCASE ALL NON-DIRECTORY NAMES
Program Type: FILE MAINTENANCE

Title: NDSAVE From JOHNSON, KEVIN J.
Ver: 07/09/85 Lang: MISC.6809 Fmt: TEXT
Function: SIMPLE HAND—HOLDING DSAVE. DERIVED WHEN OS9UG DISK CAME AT 35 TRACKS WHEN I USE 40. OS9 MAN. DSAVE EXAMPLE IS USELESS FOR NOVICE
Program Type: FILE MAINTENANCE

Title: DISKCAT From GROVAC, TIMOTHY A.
Ver: 03/01/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: PROVIDES A MEANS OF CATALOGING ALL OF YOUR DISK FILES ON ONE ALPHABETICAL LIST.
Program Type: FILE PROCESSING FILTER

Title: MARGIN From JOHNSON, KEVIN J.
Ver: 07/09/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: PASSES A PARAMETER=TO MARGIN WIDTH REQUIRED TO DEVICE REQUESTED. MAX. WIDTH SET AT 24 BUT SOURCE CAN BE MODIFIED TO YOUR CHOICE.
Program Type: FILE PROCESSING FILTER

Title: SPLIF From BALL, WILLIAM H.
Ver: 1.0 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: SPLITS A TEXT FILE INTO A LIST OF WORDS, ONE PER LINE. (See also "ADJ" and "WORDS.A" for other programs that perform this funct.)
Program Type: FILE PROCESSING FILTER

Title: ADR From BLOCH, RALPH F.
Ver: 05/12/85 Lang: ASM.6809 Fmt: OBJECT
Function: GREP LIKE PROGRAM; SEARCHES FILE "ADDRESSES", WRITES TO FILE "PAD". USED AS ADDRESS BOOK MANAGER WITH "ROF"
Program Type: MISC.

Title: ANTENNA From JOHNSON, ROBERT E.
Ver: 2 Lang: BASIC09.6809 Fmt: SOURCE
Function: DESIGNS AMATEUR RADIO VHF LONG YAGI ANTENNAS
Program Type: MISC.

Title: M-XY From BRADY, WILLIAM L.
Ver: 10/10/85 Lang: BASIC09.6809 Fmt: DIRECTORY
Function: MULTI-FILE MULTIMACHINE X-Y PEN PLOTTER DRIVER APPLICATIONS PACKAGE
Program Type: MISC.

Title: MAZE From GROVAC, TIMOTHY
Ver: 09/19/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: MAZE GENERATOR
Program Type: MISC.

Title: WORDGAME From GROVAC, TIMOTHY
Ver: 07/26/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: WORD PUZZLE GAME
Program Type: MISC

Title: SHOMEM From MORSE, GREG
Ver: 05/21/85 Lang: ASM.6809 Fmt: SOURCE
Function: DOES A HEX AND ASCII DUMP OF A REGION OF MEMORY TO STDERR. DESIGNED TO BE USED IN DEBUGGING ML PROGRAMS.
Program Type: PROGRAMMING AID

Title: VERMOD From HOOGENRAAD, ADRIANUS C.
Ver: 02/27/85 Lang: ASM.6809 Fmt: SOURCE & OBJECT
Function: THIS PROGRAM WILL COMPARE A MEMORY MODULE, DEVICE DESCRIPTOR, ETC. TO A SAVED DISK FILE
Program Type: PROGRAMMING AID

Title: BDUMP From CLARK, DAVE
Ver: 08/01/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: DISPLAYS MEMORY IN HEX AND CHARACTERS. ALLOWS FOR INPUT OF FROM, TO, INC. INC PERMITS READABLE DISPLAYS FOR BLOCKED TABLES, ETC
Program Type: PROGRAMMING AID

Title: DISASM.B From McLEAN, BRUCE
Ver: 05/25/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Takes a beginning and ending address, then outputs a disassembly to output file of your choice.
Program Type: PROGRAMMING AID

Title: FILLFILE From DREXLER, KEN
Ver: 11/26/85 Lang: BASIC09.6809 Fmt: TEXT
Function: BUILDS DISK FILES FILLED WITH A SPECIFIED CHARACTER. USED FOR PADDING OBJECT CODE BEFORE COPYING TO A ROM.
Program Type: PROGRAMMING AID

Title: PEEK From KREIDER, CARL R.
Ver: 1.0 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: DISPLAYS THE MEMORY MAP AND REGISTER STACK FOR A GIVEN PROCESS ID.
Program Type: PROGRAMMING AID

Title: BESSEL From MORSE, GREG
Ver: 05/21/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: EVALUATES BESSEL FUNCTION OF ANY ORDER AT A GIVEN POINT. BASED ON 1984 ROUTINE SPECIFICALLY DESIGNED FOR SMALL COMPUTERS.
Program Type: SUBROUTINE

Title: DATELIB From MEAHAN, WILLIAM W.
Ver: 07/29/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: Convert standard-format dates (mm/dd/yy) to Julian dates for date arithmetic
Program Type: SUBROUTINE

Title: DATES.B From DREXLER, KEN
Ver: 11/26/85 Lang: BASIC09.6809 Fmt: TEXT
Function: SIX PROCEDURES FOR INPUTTING DATES, CONVERTING THEM FROM ONE FORMAT TO ANOTHER AND PRINTING THEM.
Program Type: SUBROUTINE

Title: HEXSTRINGS From DREXLER, KEN
Ver: 11/26/85 Lang: BASIC09.6809 Fmt: TEXT
Function: TWO PROCEDURES: (1) CONVERT HEXIDEcimal STRING TO A REAL NUMBER AND (2) CONVERT A REAL NUMBER TO A HEX STRING.
Program Type: SUBROUTINE

Title: MAKARG From MORSE, GREG
Ver: 05/21/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: SPLITS A STRING INTO AN ARRAY OF WORDS. RETURNS WORD COUNT AND WORD ARRAY. USED TO EXTRACT ARGUMENTS FROM A COMMAND LINE.
Program Type: SUBROUTINE

Title: PARSE_PATHLIST From JOHNSON, KEVIN J.
Ver: 10/25/85 Lang: BASIC09.6809 Fmt: TEXT
Function: SPLITS A PATHLIST INTO ITS COMPONENT PATHS AND DETERMINES NUMBER OF PATHS IN PATHLIST
Program Type: SUBROUTINE

Title: PLOTTER From SMITH, MARK W.
Ver: 04/07/85 Lang: BASIC09.6809 Fmt: SOURCE & OBJECT
Function: TO ALLOW AN EASY INTERFACE BETWEEN BASIC09 & THE TANDY FP-215 FLATBED PLOTTER
Program Type: SUBROUTINE

Title: PRINTCOL From DREXLER, KEN
Ver: 11/26/85 Lang: BASIC09.6809 Fmt: TEXT
Function: FORMATS A TEXT STRING INTO A COLUMN SPECIFIED BY THE USER AND OUTPUTS IT TO A SPECIFIED PATH.
Program Type: SUBROUTINE

Title: RANDOMIZE From McLEAN, BRUCE
Ver: 05/25/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: The program randomizes the random number generator in Basic09 by time of day clock.
Program Type: SUBROUTINE

Title: TRANS_LIB.C From GOLDMAN, ERIC S., M.D.
Ver: 04/22/84 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: A LIBRARY OF STANDARD MATHEMATICAL FUNCTIONS
Program Type: SUBROUTINE

Title: ERRCMD From DREXLER, KEN
Ver: 05/25/85 Lang: ASM.6809 Fmt: SOURCE
Function: CONVERTS AN OS-9 ERROR NUMBER INTO THE CORRESPONDING ENGLISH DESCRIPTION OF THE ERROR.
Program Type: SYSTEM UTILITY

Title: ERROR.A From DURHAM, PETER E.
Ver: 03/26/85 Lang: ASM.6809 Fmt: SOURCE
Function: Looks up error messages in /D0/SYS/errmag on demand.
Program Type: SYSTEM UTILITY

Title: INIZ From TYLER, WILLIAM R.
Ver: 05/11/85 Lang: ASM.6809 Fmt: SOURCE
Function: ATTACHES A DEVICE TO THE SYSTEM. USUALLY PLACED IN "STARTUP" FILE TO INITIALIZE HARDWARE.
Program Type: SYSTEM UTILITY

Title: LINK From TYLER, W.R. & RASPUTIN, O.
Ver: 05/11/85 Lang: ASM.6809 Fmt: SOURCE
Function: SIMILAR TO MICROWARE "LINK" COMMAND, EXCEPT DOES NOT ABORT ON ERROR UNTIL AN ATTEMPT IS MADE TO LINK ALL PASSED PATH NAMES.
Program Type: SYSTEM UTILITY

Title: LOAD From TYLER, W.R. & RASPUTIN, O.
Ver: 01/25/85 Lang: ASM.6809 Fmt: SOURCE
Function: SIMILAR TO MICROWARE "LOAD" COMMAND, EXCEPT DOES NOT ABORT ON ERROR UNTIL AN ATTEMPT IS MADE TO LOAD ALL PASSED PATH NAMES.
Program Type: SYSTEM UTILITY

Title: UNLINK From TYLER, W.R. & RASPUTIN, O.
Ver: 05/17/85 Lang: ASM.6809 Fmt: SOURCE
Function: SIMILAR TO MICROWARE "UNLINK" COMMAND, EXCEPT DOES NOT ABORT ON ERROR UNTIL AN ATTEMPT IS MADE TO UNLINK ALL PASSED PATH NAMES.
Program Type: SYSTEM UTILITY

Title: DISPLAYHELP From CLARK, DAVE
Ver: 06/01/85 Lang: BASIC09.6809 Fmt: SOURCE
Function: PREPARES MANUAL OF HELP FILES WITH SORTED INDEX. ALLOWS 150 FILE NAMES. NAMES ARE LOWERCASED BEFORE SORTING.
Program Type: SYSTEM UTILITY

Title: PUTDOS From DZIEDZIC, MIKE
Ver: 2.1 Lang: BASIC09.6809 Fmt: SOURCE
Function: MAKES A SS OR DS DISK BOOTABLE WITH RS DISK BASIC 1.0 OR 1.1.
Program Type: SYSTEM UTILITY

Title: ERROR.C From DURHAM, PETER E.
Ver: 03/26/85 Lang: C.MW.6809 Fmt: SOURCE
Function: Looks up error messages in /D0/SYS/errmag on demand.
Program Type: SYSTEM UTILITY

Title: HEXIFY From BUCK, DAVID K.
Ver: 02/21/85 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: DUMPS A FILE IN HEX WITH ONE HEX BYTE PER LINE — GOOD FOR FINDING CTRL CHARS, ETC.
Program Type: PROGRAMMING AID

Title: SLED From JOHNSON, RICHARD E.
Ver: 1.02 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: SLED, A SCREEN EDITOR, AND THE INCLUDED UTILITIES FORM A GOOD PROGRAM EDITING SYSTEM
Program Type: TEXT FILE PROCESSING

Title: LIST From MICROWARE SYSTEMS
Ver: 2 Lang: ASM.6809 Fmt: OBJECT
Function: LISTS A TEXT FILE AND PRINTS TITLE, PAGE NUMBER, AND DATE (WORKS LIKE THE NEW "PR" UTILITY BY MICROWARE).
Program Type: TEXT FILE OUTPUT ROUTINE

Title: PRINT.A From MICROWARE SYSTEMS
Ver: 2 Lang: ASM.6809 Fmt: OBJECT
Function: WILL TAB AN ASSEMBLER LISTING WITH PAGE NUMBER, TITLE, AND DATE.
Program Type: TEXT FILE OUTPUT ROUTINE

Title: HEAD.09 From BALL, WILLIAM H.
Ver: 1.0 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: LISTS A SPECIFIED NUMBER OF LNES FROM THE FRONT OF A FILE(S) WHICH CAN BE ON THE COMMAND LINE OR STD IN.
Program Type: TEXT FILE OUTPUT ROUTINE

Title: TAIL.09 From BALL, WILLIAM H.
Ver: 1.0 Lang: C.MW.6809 Fmt: SOURCE & OBJECT
Function: LISTS A SPECIFIED NUMBER OF LINES FROM THE END OF A FILE(S), FROM A LIST ON THE COMMAND LINE OR STD IN.
Program Type: TEXT FILE OUTPUT ROUTINE